Denis Hoti

Software Developer

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Education

Bachelor of Science - BS, *Catholic University of Eichstaett-Ingolstadt* ⧉
Data Science

10/2023 – present
Ingolstadt, Germany

High School, *Association "Loyola-Gymnasium"*

2020 – 06/2023

Programming School, *Shkolla Digjitale Prizren | Digital School Prizren*

2019 – 2023

Primary and Secondary School, *SHFMU "4 Dëshmorët"*

2011 – 2020

Professional Experience

Software Developer, *XITASO* ⧉
Working Student in the role as Software Developer.
Part of the "AI for Healthcare" team in the Research & Innovation sector of Xitaso.

03/2024 – present
Ingolstadt, Germany

Our team is focused on the Healthcare section, while we try with our research to bring great products that will help doctors and hospitals on their daily tasks.

My main focus on the team is helping on developing the demonstrators for our AI Applications, bringing the Machine Learning APIs to the users with a good user interface. Also, helping on different Machine Learning and Data Science aspects on the project.

PHP Developer, *Tech387* ⧉
I served as a PHP Developer in a collaborative venture between Tech387 and Wuerth Cloud Service, primarily focused on revitalizing the Towio platform. My responsibilities included implementing new designs, seamlessly integrating existing functionalities, coding server-side scripts in PHP, and optimizing database operations. I actively collaborated with cross-functional teams, conducted extensive testing, and maintained detailed documentation. Notable achievements include successfully enhancing platform aesthetics, preserving core functionalities, and optimizing performance, showcasing my dedication to delivering high-quality solutions in a dynamic project environment.

07/2023 – 09/2023
Sarajevo,
Bosnia and Herzegovina

Full-stack Developer, *StarLabs* ⧉
I am utilizing my expertise in the Laravel PHP framework to build a web application for StarLabs. This application aims to streamline the recruitment and management process of new interns for the company, by providing an intuitive and easy-to-use platform for both interns and management.

07/2022 – 10/2023
Pristina, Kosovo

Full-stack Developer, *Dookoo* ⧉   05/2021 – 06/2023
As a digital professional, my focus is on driving business growth through innovative and effective digital   London, England, UK
transformation strategies, specifically utilizing growth hacking tactics. In my current role, I specialize in
creating fully functional and visually appealing websites for small and medium-sized businesses in the UK.
Additionally, I also contribute to our company's website blog by writing articles on web development tips,
tricks, and best practices to provide value to our clients and readers. I am passionate about helping
businesses succeed in the digital landscape and strive to deliver results through cutting-edge tactics and
well-crafted solutions.

PHP and Laravel Developer, *StarLabs* ⧉   02/2022 – 05/2022
I have developed two multi-functional web applications using Laravel to digitize the recruitment process   Pristina, Kosovo
for my company. These applications streamline the process for candidates and HR, leveraging the power of
the Laravel framework to create efficient and user-friendly platforms.

Web Developer, *NGO THY*   06/2021 – 01/2022
I have developed a website for a European project showcasing Albanian Cultural Monuments and   Prizren, Kosovo
traditional food, utilizing my web development skills and interest in culture and history.

Facilitator, *NGO THY*   09/2021
I facilitated a workshop on digital portfolio creation for NGO THY, and shared my knowledge and   Prizren, Kosovo
experience to help others create their own portfolios.

Workshop Facilitator and Project Assistant, *NGO THY*   07/2021
This project aimed, together with NGO volunteers and with my helps as an experienced web developer, to   Prizren, Kosovo
come to a conclusion about the NGO THY website, how it will look?; What it should contain?;

Trainer, *NGO THY*   12/2020 – 01/2021
I was a trainer for a Front-End Development Course in partnership with NGO THY, sharing my knowledge   Prizren, Kosovo
and experience in front-end web development to teach others the skills needed for this field.

Professional Skills

HTML	● ● ● ● ●	CSS3	● ● ● ● ●
JavaScript	● ● ● ● ●	Bootstrap	● ● ● ● ●
Tailwind CSS	● ● ● ● ●	jQuery	● ● ● ● ●
PHP	● ● ● ● ●	Laravel	● ● ● ● ●
MySql	● ● ● ● ●	Wordpress	● ● ● ● ●
Python	● ● ● ● ○	Google Firebase	● ● ● ● ●
Microsoft Excel	● ● ● ● ●	Microsoft Access	● ● ● ● ●
JavaScript API	● ● ● ● ○	Java	● ● ● ○ ○
React JS	● ● ● ○ ○	Git	● ● ● ● ●
Jira	● ● ● ● ●		

Communications & Organisational Skills

Honesty

Forward-looking

Friendly

Leadership Skills

Able to handling different tasks

Self-motivated

Competent

Communicative

Responsible

Willing to take initiative

Being able to cooperative with colleagues and to adapt in any situation

Quick Learning Ability

Non-Formal Education

Exchange Student in Bosnia and Herzegovina   2022
Sarajevo,
Bosnia and Herzegovina

Exchange Student in Sweden   2017
Vastervik, Sweden

Exchange Student in Sweden ⬀   2015
Vastervik, Sweden

Languages

Albanian (Shqip)   ● ● ● ● ●   **English**   ● ● ● ● ●
TOEFL

Deutsch   ● ● ○ ○ ○

Certificates

- Tailwind CSS Essential Training ⬀
- Soft, Digital and Business Skills ⬀
- Front-end Developer ⬀
- Study visit to Sweden ⬀

- November Code Fest 2021 Finalist ⬀
- ICT & Digital Skills - JAVA ⬀
- Back-end Developer ⬀
- Training in design and development at UPSHIFT ⬀

Projects

VGI Challenge | How does the VGI-Flexi move Rural Areas ⬀   11/2024

Participated at VGI Challenge in Ingolstadt, held at Technische Hochschule Ingolstadt, a format when you have only 7 days to solve one of the three public transport challenges. Supported by @VGI, Technische Hochschule Ingolstadt, @AININ and @Katholic University of Eichstatt-Ingolstadt.

We worked on the challenge "How does the VGI-Flexi move Rural Areas", the objective was to visualize the spatio-temporal travel behavior of VGI-Flexi users. And also, yesterday (Friday, 15/11/2024), after pitching our work, we won the 2nd prize 🏆 on the challenge.

Using tools like Power BI and Python libraries such as Seaborn, Pydeck, and Folium, we uncovered several important insights. For example, over 40% of trips are canceled, and nearly 12% are canceled by drivers, which represents our worst-case scenario—when passengers don't show up. We also visualized the demand for VGI Flexi throughout the day, showing the distribution of Cancelled vs. Validated trips at specific hours.

To dive deeper, we created an interactive Google API map to analyze passenger density in different areas and display the most popular routes at certain times, along with approximate distances and travel times. While traffic and stops aren't accounted for, this provides valuable insights into peak activity. Furthermore, we calculated the average monthly cancellation rates at every bus station.

To address the 12% driver cancellation issue, we trained a machine learning model to predict the probability of passenger no-shows based on day, time, and route. With adjustable parameters, the model offers actionable predictions and could be enhanced with additional data.

Lastly, to understand system efficiency firsthand, we even tested VGI Flexi at 2:30 AM on Tuesday, and documented our experience.

KULTour ⧉ 11/2024
Developed during a 24-hour hackathon in Salzburg, Austria, "Tourism Technology Festival".

Attention: Do you want to explore the world? KULTour is the perfect app for you!

Every year, millions of tourists from around the world visit Austria. Our goal is to enhance their experience by making data-driven assumptions about their preferences. To tackle this exciting challenge, we will employ machine learning techniques, specifically using Collaborative Filtering with Singular Value Decomposition (SVD).

Before diving into the modeling, we'll thoroughly investigate our dataset, perform data visualization to gain initial insights, and ensure the data is properly cleaned.

Our ultimate aim is to provide an API endpoint for the Frontend, enabling data-driven decisions for each individual user to be accessed through the web application.

Rain in Australia - ML Project ⧉ 05/2024 – 07/2024
In my second semester, in the Data Science course at the Catholic University of Eichstaett-Ingolstadt ⧉ , we had the class "Hands-on Machine Learning and Data Science", me and my university colleague, Ali Guliyev were assigned to work on this Machine Learning project as our Final Project.

The project we had to work on is Rain in Australia ⧉ , the main goal on our project was for us to practice on a real project, to use what we learned during the lectures in the project, and to have a better understanding of Machine Learning with Python.

Dr. Besim Morina Website, *https://besimmorina.com/* ⧉ 01/2023 – present
This website is a professional online presence for one of the top cardiologists in Kosovo. It showcases the doctor's qualifications and experience, highlighting his expertise in the field of cardiology. The website also provides detailed information about the doctor's services, including diagnostic tests and treatments. It allows patients to contact the doctor for inquiries. The website is designed to be user-friendly, with easy navigation and a clean layout. It is a great tool for patients to learn more about their doctor and access his services.

Based In Science Website, *https://basedinscience.org/* ⧉ 2022 – present
I have had the opportunity to work with Based In Science (BIS), a non-profit organization dedicated to promoting STEM education among young people from the Balkans, with a focus on Kosovo, and the UK. Utilizing my web development skills, I created and currently manage their website, which features an easy-to-use interface for BIS to showcase their programs and events. The website was built using WordPress and PHP.

Dookoo Website, *https://dookoo.co.uk/* ⧉ 05/2021 – present
This project is a new website built with Wordpress for a company based in London. It has a modern, user-friendly design, with a range of features that allow users to interact with the website in multiple ways. The website is designed to be responsive and mobile-friendly, ensuring the best user experience across all devices. Altogether, this website is a powerful and comprehensive tool that makes it easy for customers to interact with the company.

Map Vibes, *https://github.com/denishotii/TechFest* ⧉   10/2022

Map Vibes is a Direction App that brings you the opportunity to explore new destinations in the world, and also takes you on a new adventure and experience in your own backyard.
Map Vibes is a new way to navigate through the world. Our app focuses on landmarks instead of distances, so users can find out what's across the way and make their own decisions about where to go.

Starlabs Internship Application ⧉   02/2022 – 05/2022

During my internship at Starlabs, I was an integral part of a project that aimed to streamline the internship application process for programmers. The project featured a platform with tests and coding challenges that helped Starlabs management to identify the most suitable applicants. I was responsible for developing the Feedback Section and the feature that allows the export of accepted users. The platform was built using the Laravel framework

Starlabs Intenship Hub ⧉   02/2022 – 05/2022

As a member of the team during my internship at Starlabs, I contributed to the development of a comprehensive platform for managing internships. The platform, built using Laravel, offers a suite of features designed to streamline the internship experience for both interns and management at StarLabs. My responsibilities included the development of several key features such as importing accepted interns, creating and managing teams, adding and managing technologies, implementing a real-time chat system and CRUD operations, a task board, a blog, feedback and a stack-overflow style problem-solving section, and many more. My goal was to make the platform as user-friendly as possible for both interns and managers, providing everything that is needed to manage an internship in a big company like StarLabs.

Feel the Space, *https://feelthespace.denishoti.dev/* ⧉   10/2021

I developed Feel the Space, a dynamic web platform that is centred around the theme of space. The platform is built using HTML, CSS, JavaScript, PHP and MySql.

The platform offers accurate and up-to-date information on the most important events in the field of planetary space, an e-commerce section that sells various space-related products and features a user-friendly administrative panel for managing and updating products, managing sales, discounts and more. The platform also includes PHPMailer for sending notifications to buyers and sellers, a search engine for products, an easy and efficient checkout process, an order history section, a newsletter subscription service and a live chat for customer support.

Another key feature is the forum, which aims to bring people with a common interest in space together, it's built with a chat engine that allows group chat, sending files and photos, which was created with REACT and Google & Facebook Authentication and several other libraries.

The platform is designed to provide users with an enjoyable and easy-to-use experience, and also offers effective management tools for administrators and platform managers.

Covid-19 Statistics Web App, *https://covid-19.denishoti.dev/* ⧉   02/2021

I developed a real-time COVID-19 tracker utilizing a JavaScript API and the React.js framework. The tracker provided current information on new cases, accessible and updated in real-time. The source code for the project is available for download on GitHub at https://github.com/denishotii/react-covid19-tracker.git

Tic Tac Toe Game, *https://tictactoe.denishoti.dev/* ⧉   01/2021

I created a fun and ad-free Tic Tac Toe game, designed for enjoyment with friends and family. The game offers the option to play with one or two players and was developed using JavaScript. The source code for the project can be found on GitHub at https://github.com/denishotii/JavaScript-tic-tac-toe.git

Awards

2nd Place Award | VGI Challenge, *VGI, AININ* ⧉   15/11/2024
Participated at VGI Challenge in Ingolstadt, held at Technische Hochschule Ingolstadt, a format when you have only 7 days to solve one of the three public transport challenges. Supported by @VGI, Technische Hochschule Ingolstadt, @AININ and @Katholic University of Eichstatt-Ingolstadt.We worked on the challenge "How does the VGI-Flexi move Rural Areas", the objective was to visualize the spatio-temporal travel behavior of VGI-Flexi users. And also, yesterday (Friday, 15/11/2024), after pitching our work, we won the 2nd prize 🏆 on the challenge.

Best "Open Source" Project, *Florian Bauer, Engage Technology | Tourism Technology Festival 2024* ⧉   10/11/2024
During the 24-hour hackathon in Torusim Technology Festival in Salzburg, Austria, me and my team developed a platform "KULTour", which won first place in the Open Sorce category.

Best "Open Source" Project, *Florian Bauer, Engage Technology | Tech Fest Albania 2022* ⧉   23/10/2022
"I am proud to have participated and won first place in the Open Source category at the 24-hour hackathon held at Tech Fest Albania ⧉ . Alongside my team, I developed the platform "Map Vibes", which was recognized for its innovation and technical excellence. More details about the project can be found on GitHub at https://github.com/denishotii/TechFest ⧉ ."

November Code Fest 2021 Finalist, *Digital School* ⧉   27/11/2021
I had the opportunity to participate in the November Code Festival, a premier technology festival organized by Digital School and held in Kosovo. My project, "Feel the Space" was selected as one of the best in the hackathon and I was honoured to have been part of this event.

Hackathon Winners at KosICT Technology Festival., *KosICT*   23/10/2021
"I had the privilege of participating in the 10th edition of the KosICT Technology Festival, where I had the opportunity to share my experiences and network with various startups and businesses in the technology industry.

Additionally, I participated in the Hackathon organized by KosICT with the theme of "Back to the Future," as part of the Digital School. Together with my team member Valart ZK, we developed the project "Feel the Space" and were thrilled to have won first place in the hackathon.

You can check out our award-winning project at "Feel the Space" website. ⧉

Organizations

NGO THY   09/2020 – 08/2023
As a volunteer in an organization, I take on multiple roles, including serving as a Facilitator and Project   Prizren, Kosovo
Assistant. I am responsible for providing support and guidance to team members, as well as assisting with the planning, execution and follow-up of projects. In addition, I am also involved in the technical setup of the organization's operations, including assisting with the setup of equipment and technology-related tasks. My goal is to assist the organization in its efforts to achieve its objectives, by providing a helping hand where it's needed, learning and gaining experience while doing it.

Publications

How to self-host Judge0 API on your PC locally | All you need to know, *Medium* ⧉   02/08/2022
In this article, you will find everything you need to know to self-host Judge0 API locally on your PC. We also cover the part of setting up a Linux Distributor, installing Docker on your PC, and hosting Judge0 API in your Virtual Box.

Is php DYING?, *Dookoo* ⧉   06/01/2022
Since I work with PHP myself I was concerned with the debate whether PHP is dying or not, so then I did some research and came to the conclusion that no programming language dies and PHP is far from dead, especially with its new version PHP8.0 and also is used in more than 78% of the world's websites!

Auto Update Copyright Year in a Website Dynamically using JavaScript & php (2022), *Dookoo*   02/01/2022

As the years change many websites forget to change the copyright years. So I want to share with you this article I wrote, which tells What is copyright?; Why you should update the copyright year!?; How you can update it?;

Also, we showed a piece of code on how just with some lines of code you can automate it using JavaScript or PHP.

References

Visar Haxhifazliu, *Executive Director*, NGO THY
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Arianit Tershnjaku, *Instructor*, Digital School Prizren
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