

# Alban Xhepi

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As a forward-thinking and accomplished Software Engineer, I am dedicated to crafting cutting-edge solutions that push the boundaries of technology. My passion for programming and problem-solving drives my pursuit of elegant and efficient code, resulting in high-performing software applications. With a keen eye for detail and a collaborative mindset, I excel in multidisciplinary teams, driving successful projects from inception to delivery. Committed to staying up-to-date with the latest industry trends and advancements, I am poised to bring my technical expertise and creativity to tackle new challenges and drive innovation in the field of software engineering.

## Skills

- Python | Java | JavaScript | PHP | Spring Boot | Django | Symfony | API | Rest API | React | jQuery | NoSQL | Git |
- AI | ML | Neural Network | Computer Vision | MATLAB | PyTorch | TensorFlow | Bash Scripting | Azure | Cloud Computing | CI/CD | Unit Testing | OOP | Unity 3D | VR | AR | Game Development | Agile | Scrum |
- Microservices | Distributed Systems | Parallel Programming | Frontend | Backend | Full-Stack | English, Albanian – All professional proficiency or above

## Experience

- | Software Engineer  | Epoka University | Tirane, Albania | 07/2022 - Current |
|--|------------------|-----------------|-------------------|
| <ul style="list-style-type: none"><li>• As a Software Engineer at Epoka University, I worked on two key projects: <b>K12 Management and Smart Campus</b>.</li><li>• These projects aimed to streamline financial and academic operations and improve campus security and access control.</li><li>• 1. K12 Management System: Designed and developed a comprehensive management system covering kindergarten to 12th-grade classes at Epoka University. Utilized <b>PHP Symfony JS JQuery MySql</b> framework to build robust and scalable features. Successfully integrated role-based access control, ensuring data privacy and security for 1000+ users. Increased efficiency of academic and financial processes by 30%, reducing administrative overhead. Achieved an overall system uptime of 99.9% during peak usage, ensuring seamless access to critical functions.</li><li>• 2. Smart Campus System: Developed the Smart Campus System to manage hardware-related tasks such as student and staff entry and exit tracking, access control, and in-campus payments. Utilized <b>Python Django JS JQuery MySql</b> framework and some python <b>Networking libraries (Twisted, etc)</b> for building the system, ensuring flexibility and adaptability. Successfully implemented access control for 50+ campus doors, enhancing security measures and reducing unauthorized access incidents by 40%. Integrated the system with the university's financial infrastructure, processing over 1000 in-campus transactions per month with 98% accuracy. Reduced student queuing time at entry and payment points by 50%, resulting in improved student satisfaction and operational efficiency.</li></ul> |                  |                 |                   |

- | Software Development Engineer  | VTech Project | Tirane, Albania | 04/2020- 04/2022 |
|--|---------------|-----------------|------------------|
| <ul style="list-style-type: none"><li>• During my participation in the VTech Project organized by Erasmus, I had a significant role in implementing education in Virtual Reality (VR). This project aimed to advance the integration of VR technology into educational settings. As a participant, I gained knowledge in game development and the development of VR and AR software using <b>Unity</b>. The VTech Project was conducted across three different countries: Albania, Kosovo, and North Macedonia. Each country provided unique perspectives and contributions to the project. The final hackathon event took place in North Macedonia, where all participants gathered to showcase their innovative ideas and projects. My specific project focused on the implementation of electronic circuits into education through VR. I created virtual classes with various circuits and the implementation of different logic gates, enabling learners to interact with and understand different circuit designs in an immersive and engaging way.</li></ul> |               |                 |                  |

## Education

- | Master of Science   | Epoka University | Tirane, Albania | 09/2022 - Current |
|---|------------------|-----------------|-------------------|
| <ul style="list-style-type: none"><li>• Major in Computer Engineering</li></ul> |                  |                 |                   |
| Bachelor of Science   | Epoka University | Tirane, Albania | 09/2019 - 07/2022 |
| <ul style="list-style-type: none"><li>• Major in Computer Engineering</li></ul> |                  |                 |                   |

## Projects

- **Gender Detection: (Python)** A machine learning-based program that accurately predicts the gender of individuals based on their facial features.
- **Traffic Generator: (Python)** A versatile simulation tool for generating realistic car traffic scenarios, enabling testing and analysis of various street types and traffic conditions.
- **Traffic Sign Detection and Recognition: (Python)** An advanced computer vision system that accurately detects and recognizes traffic signs, facilitating enhanced safety and efficiency in real-world driving scenarios.
- **Eye Tracking: (Python)** A sophisticated vision-based system that precisely tracks eye movements(left, center or right), also detecting eye blinking and tiredness of the eye.
- **Travel Management System: (PHP)** A comprehensive software application designed to efficiently handle travel arrangements, itinerary planning, booking management, and expense tracking, simplifying the travel experience for individuals and organizations alike.