Athanasios Genidounias | CV

Software Developer and Computer Engineer

Personal Details

Location:	Athens, Greece
Status:	Software Developer
Fields:	Informatics and Computer Engineering
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Professional Summary

As a dedicated Informatics and Computer Engineering student, I excel in Java and Spring Boot, demonstrating a strong aptitude for developing innovative software solutions. My pivotal role in conceptualizing and leading the development of Preze-Forecast, an advanced weather forecasting application with AI integration, exemplifies my capability to manage and execute complex technical projects. Contributing to ItsAlive's groundbreaking spirulina bioreactor project, I displayed my innovative mindset and technical prowess. My involvement in the Talos project, focusing on programming automated UAVs for forest security, further showcases my commitment to applying my skills to challenging, real-world problems.

Professional Experience

- **2022 - Present**, Software Developer, Sword Group
    - Key developer for the MyEPO project at the European Patent Office, showcasing expertise in Spring Boot and Spring Cloud Data Flow.
    - Proficient in utilizing Elasticsearch, DB2 databases, and Jenkins for robust project development and management.
    - Employed Kafka, Kubernetes, and ArgoCD to enhance the efficiency and scalability of the project.
    - Actively monitored system performance using Grafana, ensuring optimal operation and reliability.
    - Oversaw production monitoring and addressed user incidents, employing JMeter and Elastic logs to identify and resolve issues promptly.

- **2022 - Present**, Project Manager and Developer, Talos U.V.S
    - Managed project plans, team meetings, and resource allocation.
    - Developed computer vision algorithms using OpenCV for UAV applications.
    - Integrated computer vision capabilities into UAVs using Raspberry Pi.

- **2020 - 2022**, Software and Electrical Engineer, Its Alive
    - Engineered and deployed IoT services, innovating in automation systems to enhance operational efficiency.
    - Designed and programmed advanced sensors for data collection, significantly improving data accuracy and analysis capabilities.
    - Played a key role as an in-house IT specialist, ensuring optimal performance through comprehensive software and hardware testing and support.

- **2017 - Present**, Freelance Tutor

  - Provided tutoring services to high school and university students in mathematics, Java, C, and C++, enhancing their understanding and proficiency in these subjects.
  - Employed tailored teaching methods to cater to individual student needs, resulting in improved academic performance and conceptual grasp.

Personal Project

- **2023 - Present**, Preze-Forecast

  - Initiated the project to fill a gap in community-driven weather reporting, enabling users to access daily weather statistics and real-time updates from others in their area.
  - Spearheaded the development of Preze-Forecast as the team leader for a group of four, leveraging Java 17 and Spring Boot.
  - Orchestrated the integration of JWT for enhanced security, enabling robust user authentication and authorization mechanisms.
  - Pioneered the use of Vue.js for front-end development, enhancing user experience through responsive design.
  - Deployed the application on Azure, utilizing GitHub Actions to streamline CI/CD processes, ensuring efficient deployment and maintenance.
  - Facilitated collaborative project management using Jira and maintained comprehensive documentation with Confluence.

Education

- **2020 - Present**, Master's Degree in Informatics and Computer Engineering   University of West Attica

  - Embracing a broad curriculum with a keen interest in networks and communications, in anticipation of doctoral studies.
  - Engaging in diverse projects and coursework, honing skills crucial for a future in advanced research and academia.
  - Demonstrating consistent academic excellence and a commitment to exploring various facets of informatics and computer engineering.
  - Actively participating in collaborative and individual research initiatives, underscoring a dedication to continual learning and professional growth.

Skills

- Java, Spring Boot, RESTful API Development, Microservices Architecture, Monolith Architecture

- Advanced Java Frameworks: Hibernate, JPA, Spring MVC, Spring Security

- Database Management: MariaDB, MySQL, PostgreSQL, DB2, Elasticsearch

- Build Tools and Version Control: Maven, Git

- Containerization and Orchestration: Docker, Kubernetes, ArgoCD

- Continuous Integration/Continuous Deployment: Jenkins, GitHub Actions

- Monitoring and Logging: Grafana, Elasticsearch, Kibana

- Others: Machine Learning, Computer Vision with OpenCV, IoT Services, Agile Methodologies, Scrum

Languages

- English (B2), German (A2)

Certifications

- Complete Guide to Elasticsearch
- Spring Framework 5: Beginner to Guru
- Apache Kafka Series - Learn Apache Kafka for Beginners v3
- Python for Data Science and Machine Learning Bootcamp
- Python for Computer Vision with OpenCV and Deep Learning

Online Presence

- LinkedIn: Athanassios Genidounias
- GitHub: akisnoobotrolis