

# ATHANASIOS GENIDOUNIAS | CV

Software Developer and Computer Engineer

## Personal Details

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

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An Informatics and Computer Engineering student with a strong focus on developing innovative software solutions. In my role at the European Patent Office, I have honed my skills in Spring Boot and Spring Cloud Data Flow, contributing to the critical MyEPO project. My experience ranges from leading the development of a AI-integrated weather forecast application called Preze-Forecast to innovating in the IoT domain with ItsAlive's spirulina bioreactor project. Additionally, my work on the Talos project, developing automated UAVs for forest security, demonstrates my versatility and ability to tackle diverse technological challenges.

## Professional Experience

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### • 2022 - Present, Software Developer, Sword Group

- Played a pivotal role in the [MyEPO](#) project at the European Patent Office, where my contributions positively impacted project outcomes. I helped deliver sprints on time, ensuring the timely completion of project milestones.
- Demonstrated exceptional performance and dedication, leading to increased responsibilities. I took on roles such as maintaining the application and being responsible for deployments in the production environment.
- Proficiency in Spring Boot and Spring Cloud Data Flow led to significant improvements, innovation, and efficiency gains for the European Patent Office.
- Leveraged Elasticsearch, DB2 databases, and Jenkins for robust project development and management, resulting in enhanced performance and streamlined workflows.
- Employed Kafka, Kubernetes, and ArgoCD to optimize project efficiency and scalability.
- Actively monitored system performance using Grafana, ensuring optimal operation and reliability.
- Oversaw production monitoring and promptly addressed user incidents by utilizing JMeter and Elastic logs, resulting in improved client satisfaction.

### • 2022 - Present, Project Manager and Developer, Talos U.V.S

- Managed project plans, team meetings, and resource allocation for the Talos U.V.S project, contributing to the successful execution of the project.
- Developed computer vision algorithms using OpenCV for UAV applications, enhancing the project's capabilities for real-time analysis and decision-making.
- Integrated computer vision capabilities into UAVs using Raspberry Pi, which plays a crucial role in protecting forests from future wildfires by providing advanced surveillance and early warning systems.

- **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.
- Collaborated on the development of bioreactors, contributing to the creation of fresh and alive spirulina, ready for consumption. This innovation aligns with the company's mission to provide nutritious and sustainable food solutions.

- **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

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- **Preze-Forecast**,

- Initiated the project initially as a semester project focused on REST API implementation, laying the foundation for a weather reporting system.
- Recognized the project's immense potential, and with the enthusiastic feedback from our teacher, we decided to extend its development beyond the classroom environment.
- Our shared vision was to address a notable gap in community-driven weather reporting. The primary objective was to empower users to access daily weather statistics and receive real-time updates from others in their local area.
- This journey from an academic exercise to a practical solution reflects our commitment to innovation and the project's evolution into what is now known as Preze-Forecast.
- 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.
- Check [Preze-Forecast](#) here. (Please note that Preze-Forecast is currently in development, and we provide frequent updates.)

If you'd like to explore without creating an account, you can use the following login credentials:

Username: a

Password: a

Some example places for weather search are Athens and Thessaloniki.

## Education

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- **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

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- 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

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- English (B2), German (A2)

## Certifications

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- 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

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- LinkedIn: [Athanassios Genidounias](#)
- GitHub: [akisnoobotrolis](#)