

KONSTANTINOS ANGELOPOULOS

Senior Software Engineer / Senior Full Stack Engineer

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PROFILE

Senior Software Engineer with 5+ years of experience designing, architecting, and delivering enterprise applications, including a **greenfield banking loan origination platform**, **cloud-native B2B systems**, and **real-time multi-UAV mission platforms**. Strong expertise in **full-stack development**, **authentication and authorization**, **API design**, **cloud migration**, and **distributed systems**, with hands-on experience across TypeScript, React, Next.js, Node.js, Java, Spring Boot, and Kubernetes.

CORE TECHNICAL SKILLS

Frontend	React, Next.js, TypeScript, JavaScript, Zustand, Tailwind CSS
Backend & APIs	Node.js, Express.js, Java, Spring Boot, REST, GraphQL, JWT authentication
Data & Messaging	PostgreSQL, Prisma, Redis, WebSockets, WebRTC
Cloud & Delivery	Docker, Kubernetes, Microsoft Azure, Azure CI/CD, ArgoCD, GitOps, YAML
Domain & Integration	SAP Service Layer, ArcGIS 3D, MCP, real-time telemetry, remote sensing

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Ground Zero Labs (Eurobank) Sep 2021 – Dec 2025
[Banking platforms](#) | [React](#), [TypeScript](#), [Node.js](#), [Express.js](#), [Redis](#), [Azure](#), [Kubernetes](#)

- **Greenfield platform:** Core contributor from day one to the development of Eurobank’s next-generation loan origination platform, participating in design decisions and delivery across Agile teams.
- **Security ownership:** Implemented JWT-based sessions and authentication/authorization functionality across the frontend and Express.js middleware.
- **Loan-flow architecture:** Architected a dedicated origination flow for a category of loans initiated through Eurobank e-banking, shaping API interactions and application behavior.
- **Application design:** Contributed extensively to React UI implementation and technical decisions around API contracts, communication patterns, and application structure.
- **Cloud migration:** Helped move the application from on-premises hosting to Azure; contributed to Azure CI/CD pipelines and refactored ArgoCD deployment YAML to reduce repetition and improve maintainability.
- **Additional initiatives:** Led the introduction of an MCP server for AI-enabled loan origination; built an asynchronous PDF/Excel export microservice using Node.js, Redis queues, WebSockets, and streaming.

Full Stack Engineer | Democritus University of Thrace (DUTH) Dec 2025 – Present
[Multi-UAV mission platform](#) | [Next.js](#), [TypeScript](#), [Spring Boot](#), [PostgreSQL](#), [ArcGIS](#)

- Develop a **3D multi-UAV mission-planning and monitoring platform** for cooperative remote sensing, integrating geospatial visualization, mission workflows, and drone communication.
- Build full-stack functionality with React/Next.js and Java/Spring Boot backed by **PostgreSQL**; integrate **WebSockets** for live drone telemetry and **WebRTC** for drone video livestreams.
- Contribute to deployment and integration of services in a Kubernetes-based environment.

Full Stack Engineer | VAKTRO Dec 2025 – Present
[B2B medical ordering](#) | [Next.js](#), [TypeScript](#), [Prisma](#), [PostgreSQL](#), [SAP](#), [Kubernetes](#)

- Designed, developed, and deployed a production **B2B ordering platform** for doctors and laboratories to purchase medical consumables and replacement parts.
- Integrated customer/product access controls and SAP services; delivered Kubernetes infrastructure with **ArgoCD** **GitOps**, database backup/restore, and secure WireGuard connectivity.

SELECTED ENGINEERING WORK

Enterprise Credit Underwriting & Decision Systems

Ground Zero Labs / Eurobank

Financial services engineering

- Contributed to corporate, mortgage, and retail credit-underwriting applications and a unified experience for business credit card, POS cash advance, and e-POS processes.
- Built an Elasticsearch-powered visualization UI for examining credit-underwriting rules used in automated decision workflows.

Human–Robot Collaboration for Fabric Folding

Research project

Python, ROS, RGB-D sensing, Kalman filtering

- Developed a human–robot collaboration approach using Kinect RGB-D sensing, force/torque feedback, and nonlinear Kalman filtering for robotic fabric folding.

EDUCATION

M.Sc. in Data Analysis and Machine Learning

2022 – 2025

Hellenic Open University

M.Eng. in Mechanical Engineering and Aeronautics

2013 – 2020

University of Patras · Grade: 8.0/10

Thesis: Human–Robot Collaboration for Fabric Folding Using RGB-D and Kalman Filters. Diploma project: Cybersecurity for Industry 4.0.

PUBLICATIONS

1. K. Angelopoulos, P. Koustoumpardis, and E. Dermatas. “Human–Robot Collaboration Solution for Folding Fabrics Based on RGB-D Force and Kalman Filters.” *Robotics Reports*, 2024. [doi:10.1089/rorep.2023.0018](https://doi.org/10.1089/rorep.2023.0018).
2. P. Foteinopoulos et al. “Development of a simulation approach for laser powder bed fusion based on scanning strategy selection.” *The International Journal of Advanced Manufacturing Technology*, 2020. [doi:10.1007/s00170-020-05603-4](https://doi.org/10.1007/s00170-020-05603-4).
3. D. Mourtzis, K. Angelopoulos, and V. Zogopoulos. “Mapping Vulnerabilities in the Industrial Internet of Things Landscape.” *Procedia CIRP*, 2019. [doi:10.1016/j.procir.2019.04.201](https://doi.org/10.1016/j.procir.2019.04.201).

CERTIFICATIONS & LANGUAGES

Azure AI Fundamentals

2024

Microsoft

ECPE, C2 Proficiency

2016

Hellenic American Union