

# Alkinoos Michalopoulos

## Software Engineer | Backend, APIs, Cloud & Enterprise Systems

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AI-first Information and Communications Systems Engineer with hands-on experience delivering software for banking and insurance environments. Built production applications across fraud detection, healthcare coordination, and emergency support, and currently contributes to enterprise API and middleware platforms in banking. Motivated by cutting-edge AI and agentic technologies, combining full-stack development with strong foundations in cybersecurity, networking, cloud workflows, and intelligent systems.

### EDUCATION

#### MSc in Information and Communication Systems Engineering

University of the Aegean | Karlovasi, Samos  
Oct 2018 - Sep 2024

- Built strong foundations in computer engineering, communications, networking, and cybersecurity.
- Specialized in physical and network security, robotics, and intelligent systems.

### THESIS

#### Soft Robotic Device for Palm Spasticity Relief

May 2024 - Sep 2024

- Designed and developed a rehabilitation prototype using sensors and patient-safe materials.
- Implemented 3 operating modes tailored to different spasticity cases and therapy needs.
- Validated the device with a physiotherapist and a stroke patient while integrating safety mechanisms.

### TECHNICAL SKILLS

**Languages:** C#, Python, JavaScript

**Web & APIs:** Next.js, Node.js, .NET, FastAPI, REST, GraphQL, SOAP, WebSockets

**Cloud / DevOps:** Azure, Azure API Management (APIM), Azure App Service, Docker Compose, GitHub Actions

**Databases:** PostgreSQL, MySQL, Oracle, MongoDB

**Tools:** SSMS, Azure Data Studio, VS Code, Visual Studio, Sandbox envs.

**Testing / AI Tools:** xUnit, Postman, JMeter, Codex, Claude, n8n, paperclip

### PROFESSIONAL EXPERIENCE

#### Software Engineer - EY | Piraeus Bank

Mar 2025 - Now | Maroussi, Athens

- Contribute to a large-scale banking platform used to manage enterprise APIs and business-facing applications.
- Build and maintain middleware services that support application integration, platform reliability, and internal operations.
- Contribute to a large-scale banking platform used to manage enterprise APIs and business-facing applications.

#### Software Engineer Intern / Developer - Covariance IKE

Jul 2024 - Mar 2025 | Nea Erythraia, Athens

- Developed three production-oriented applications for the insurance sector, covering fraud detection, healthcare coordination, and emergency support workflows.
- Built a fraud-detection solution to identify suspicious premium charges related to traffic accidents and hospital insurance cases, improving case review and operational oversight.
- Created a healthcare coordination platform and an emergency support application that enabled appointment booking, e-prescription workflows, client-provider connectivity, location sharing, and urgent assistance requests.

#### Administrative & Research Support - Robotics Laboratory

Feb 2024 - Jul 2024 | University of the Aegean

- Supported daily laboratory operations, equipment organization, and delivery handling to maintain research readiness and smooth lab workflows.
- Conducted research to evaluate potential thesis topics in robotics and intelligent systems, contributing to early-stage technical exploration and project preparation.