ALEXANDROS ANTONOV

Senior Software Engineer, Ph.D. Candidate

@ aantonov@hotmail.gr

Athens, Greece

AAlexandros

Software engineer and Ph.D. candidate with 7+ years of experience building scalable, reliable systems. Passionate about applying research-driven innovation to deliver robust and practical solutions.

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TECH STACK

(Python) (Java) (C#) (C++) (Groovy) (Bash)

(Flask) (SQLAlchemy) (Pydantic) (REST APIs) (Hibernate)

(PostgreSQL) (MySQL) (MongoDB)

Docker

(GitHub Actions CI/CD) (Microsoft Azure) (Linux) (WebSphere)

React.js Angular HTML CSS (JavaScript)

EXPERIENCE

Software Engineer | Interamerican - Digital Solutions Department

1 2016-2020

Athens, Greece

- Developed and maintained the company's customer-facing web portal (Java, Apache Wicket, Angular, Hibernate, Oracle), serving up to 1.5M+ insured clients.
- Acted as the integration bridge between the frontend portal and numerous enterprise systems (CRM, payment gateways, legacy insurance platforms, healthcare backoffice), ensuring seamless data exchange and customer transactions.
- Designed and consumed REST APIs to enable features such as online claims submission, policy management, and digital payments, expanding customer self-service capabilities.
- Collaborated in a 6-person agile team (4 devs, PO, BA) and fulfilled occasional Scrum Master duties to streamline delivery.
- Mentored and onboarded 4 junior engineers through pair-programming, code reviews, and knowledge-sharing sessions, accelerating team ramp-up and code quality.
- Conducted R&D on new technologies to align with evolving departmental needs.

OTHER SKILLS

Certified Scrum Master (PSM I)

(Teamwork)

(Problem Solving)

Mentoring Presenting

Attention to Detail

Lead Developer | KMicro - Al GRC Platform

2024-Present

Costa Mesa, CA (Remote)

- Co-led development of an Al-driven platform that generates and revises security policies, answers questionnaires, and performs compliance assessments reducing manual research for security teams.
- Designed and deployed the system architecture and infrastructure (Flask backend, SQLAlchemy, Azure Infrastructure, Docker, CI/CD with GitHub Actions).
- Implemented Secure Controls Framework (SCF) integration, loading thousands of controls into memory for real-time mapping across NIST, ISO, and other frameworks

 the core engine of the platform.
- Adapted and deployed a customized version of Prowler (open-source security tool) to Azure, extending functionality to meet enterprise compliance needs.
- Improved system performance through ORM optimizations and efficient AI logic design, reducing excessive database calls and ensuring scalability.
- Served as go-to technical lead, trusted to make architectural decisions and mentor teammates, while also managing DevOps deployments.

LANGUAGES

(C2)
(Greek: Native Speaker)
(Russian: Native Speaker)

PROJECTS

- Crypto Games : Two blockchain-based games (Solidity + React/web3.js).
- Bloom Filter-Based Multicast : Prototype ICN
 Publish/Subscribe infrastructure developed as part of EU project POINT.
- Social Network Recommendation: Dataset analysis to optimize item diffusion/recommendations.

PUBLICATIONS

SecureCyclon: Dependable Peer Sampling, ICDCS 2023 — Resilient peer-sampling mechanism (funded by **Cardano**).

CliqueSensus: Ephemeral Overlays for Committee-based PoS Blockchains, Middle-ware 2025 — Efficient consensus messaging protocol (supported by Ethereum Foundation).

EDUCATION