ALEXANDROS ANTONOV

Senior Software Engineer, Ph.D. Candidate

@ aantonov@hotmail.gr

Athens, Greece

AAlexandros

experience building scalable, reliable systems. Passionate about applying research-driven innovation to deliver robust and practical solutions.

Software engineer and Ph.D. candidate with 7+ years of

in alex-antonov-96a250105

TECH STACK

Java Python C# C++
Groovy (Bash)

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

PostgreSQL MySQL MongoDB

(Docker)

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

React.js Angular HTML CSS (JavaScript)

EXPERIENCE

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.

OTHER SKILLS

(Certified Scrum Master (PSM I)

Teamwork

(Problem Solving)

Mentoring Presenting

Attention to Detail

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.

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 (founded by Ethereum Foundation).

EDUCATION

Ph.D. Candidate in Computer Science | Athens University of Economics and Business

Title: Dependable Overlays for Blockchains □ 2021 - Ongoing • Athens, Greece

M.Sc. in Computer Science | Athens University of Economics and Business

GPA: 9.33 □ 2020 - 2021 • Athens, Greece

B.Sc. in Computer Science | Athens University of Economics and Business

GPA: 7.1 □ 2011 - 2016 • Athens, Greece