Alex Kourkoumelis

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SKILLS

Languages: Java, TypeScript, JavaScript, Python, C/C++, C#

Frontend: React, Next.js, Redux

Backend: Node.js, Spring, REST APIs

Infrastructure: AWS, Docker, Kubernetes

Practices: CI/CD, Agile, Accessibility (WCAG)

EXPERIENCE

State Farm — Lead Software Engineer   October 2022 – Present

Modernizing customer-facing insurance policy tools as part of State Farm's broader digital transformation efforts.

- Build and own customer-facing policy management flows using TypeScript, React, and Redux, supporting 40,000 monthly users.
- Design frontend components and patterns that are shared across teams, making features easier to extend and maintain over time.
- Modernize the legacy COBOL mainframe by incrementally replacing with Java/Spring and Python services, contributing to a 70%+ reduction in operational costs.
- Leading planning and rollout of AI-driven capabilities, including integrating AI into existing workflows, defining success metrics, and tracking progress against concrete milestones.
- Improve existing UI flows by simplifying navigation, clarifying user intent, and giving customers more direct control over policy changes.
- Work closely with product, design, and backend partners to scope work, validate requirements, and ship changes safely in a regulated environment.
- Improve accessibility across customer flows to meet WCAG standards and create a more inclusive experience.

Microsoft — Security Analyst   October 2019 – October 2022

Monitored and investigated security, spam, and abuse signals across Microsoft platforms to protect algorithmic integrity and reduce system misuse.

- Analyzed false-positive and false-negative cases and delivered structured feedback that helped tune detection models used across global services.
- Identified recurring abuse patterns and suggested detection improvements as new threats emerged.
- Led team review sessions for complex or ambiguous cases, helping the group reach consistent decisions.
- Maintained a high case throughput in a self-directed environment and was regularly recognized as a top performer.
- Built and maintained comprehensive onboarding programming and responsible for training all new hires.

WattTime — Software Engineer (Senior Capstone Project)   September 2019 – June 2020

Built automated carbon emissions data acquisition tools to form a global database to assist in time-based and geography-based "curving" of emissions to reduce carbon footprint.

- Reviewed reporting standards from 20+ global balancing authorities to define requirements for automated data collection.
- Built custom Python scrapers that gathered emissions data in fixed intervals and uploaded into a centralized SQL database with a consistent schema.
- Cleaned, normalized, and validated incoming data to ensure research-grade accuracy and reliability.
- Built a React-based data-visualization dashboard enabling users to explore emissions trends by time and geography and see their real-world carbon impact.

EDUCATION

Bellevue College — B.S. Computer Science   September 2017 – June 2020

Evergreen State College — B.A. Philosophy   March 2012 – December 2014