Alex Kourkoumelis

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LANGUAGES/LIBRARIES/FRAMEWORKS/TECHNICAL SKILLS

Java • Javascript • Typescript • Python • C • C++ • C# • React.js • Next.js • Node.js
Kubernetes • Docker • Redux • Spring • Git • AWS • Machine Learning • Agile

EDUCATION

Bellevue College • *BS, Computer Science* September 2017 – June 2020

Evergreen State College • *BA, Philosophy* March 2012 – December 2014

EXPERIENCE

State Farm, Bloomington, IL (*remote*) October 2022 – Present

Lead Software Engineer *(11/2024 – Present)*

Software Engineer II *(10/2022 – 11/2024)*

Supporting State Farm's modernization strategy by incrementally replacing an outdated back-end to reduce operations costs and by building an insurance policy view and transaction flows that enable customers to directly manage their policies.

- Helped plan and execute the development of a robust front-end application using JavaScript, React, and Redux to create a foundation that allows for maximum future extensibility.
- Incrementally implemented a modern and efficient Python/Java back-end to replace the outdated COBOL mainframe, reducing operations costs by over 70%, and dramatically improving reliability, usability, and extensibility.
- Developed several responsive customer-facing flows from start to continuous integration to enable new capabilities, growing monthly traffic from 50 hits per month to over 40,000 hits per month.
- Spearheaded the development of a company-wide library for all front-end engineers to utilize for common company assets, creating consistency in design and functionality throughout our customer-facing services.
- Led the initiative to enhance website accessibility, ensuring compliance with industry standards (WCAG) and creating an inclusive online experience for all users, resulting in improved usability and alignment with regulatory requirements.

Microsoft, Redmond, WA October 2019 – October 2022

Data Analyst

Monitored, tracked, and analyzed instances of services abuse on Microsoft's platforms, providing critical feedback and input to the algorithms used to safeguard corporate systems hosted on Azure.

- Performed false-positive/false-negatives analysis, summarizing findings and equipping architects with the essential information to tune detection algorithms.
- Aggregated discoveries from detailed analysis of services abuse into enhancements backlog, providing the requirements needed to incrementally improve the product.
- Led team meetings to define strategy for approaching obscure cases, leading to high resolution rates.
- Maintained self-driven cadence of work in an unstructured environment, leading to a high case handling rate and recognition as a high performer by the team.
- Prepared and maintained comprehensive onboarding programming and responsible for training all new hires.

WattTime, Oakland, CA (*remote*) September 2019 – June 2020

Software Engineer *(Senior Capstone Project)*

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.

- Analyzed the reporting techniques of balancing authorities worldwide to determine requirements for scrapers.
- Developed custom web scrapers using Python for each balancing authority globally (10+) to gather emissions data 288 times daily and post to an SQL database.
- Cleaned, converted, and stored reported data, ensuring that any inconsistencies were corrected and that the end data quality was research-grade.
- Built a React dashboard that leverages WattTime data to present data visually and in terms that are flexible and extensible to the end consumer.