

KAI DANIELS

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EXPERIENCE

Software Engineer

Sep 2023 – Present

Microsoft – Redmond, WA

- Developed a cache purging backend to maintain metadata integrity for the Azure Linux (PMC) platform, a critical component for ensuring service reliability during Linux package publishing.
- Implemented token-based authentication for the PMC CLI, improving security compliance by reducing certificate-based validation along with enabling greater API flexibility for publishers.
- Led end-to-end automation of Linux repository creation and updates via Azure DevOps pipelines, establishing standardized validation schemas, reducing manual prod touches by over 95%, and significantly enhancing PMC's operational reliability and onboarding security.

Seasonal Lecturer

Jun 2023 – Aug 2023

University of Washington – Seattle, WA

- Lectured for CSE 12x (introductory Java) to nearly 100 students, managing course content and leading a large team of teaching assistants across the intro series.

Head Teaching Assistant

Sep 2020 – Jun 2023

University of Washington – Seattle, WA

- Oversaw 9 quarters as head TA for the CSE 12x series and CSE 421, coordinating instruction in courses ranging from basic data structures to advanced algorithms.

Software Engineering Intern

Jun 2022 – Sep 2022

Microsoft – Redmond, WA

- Produced Scala (Spark) scripts that used daily device telemetry to quantify Azure cloud usage for over 16,000 endpoints, resulting in crucial Windows OS insights to estimate quarterly costs.

Software Development Intern

Jun 2021 – Sep 2021

Kaiser Permanente – Renton, WA

- Collaborated with senior engineers to optimize data transformation scripts resulting in a 96% decrease in functional runtime and a 2100% increase in parallel process efficiency.

EDUCATION

The University of Washington – Seattle, WA

Jun 2023

- B.S. in Computer Science, Minor in Informatics | GPA: 3.92 (*Magna Cum Laude*)

PROJECTS

Programming Skills: Python, Java, SQL, C++, Linux, Kubernetes, R, CI/CD, Git.

■ Volunteering:

- **Debate Coach:** Instruct students on effective communication, public speaking, and critical advocacy skills on topics ranging from social theory to governmental politics.
- **Computer Science Educator:** Built CS education resources and instructional coursework via the Microsoft TEALS program for underfunded highschool programs in Memphis, TN.
- **Hackathons:** Collaborated on an AI-powered news aggregator to reduce bias in political news and implemented an indexing configuration for an AI powered chat bot's document search algorithm.