

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.