

# Charles Alders

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GitHub

CS&E graduate student at UC Santa Cruz. Self-motivated learner and Software Engineer. Experience in distributed database systems, development operations, RESTful API development, and software/database testing. Passionate about all things data and technology.

## Skills

Python, JavaScript/TypeScript, Java, Kotlin, C++, Apache Cassandra, CQL/SQL, AWS, Google Cloud, bash/zsh, Linux (Debian/NixOS), Git/GitHub, Docker, Flask, Graph Databases, Jenkins

## Education

<b>M.S. Computer Science &amp; Engineering</b> University of California, Santa Cruz - Santa Cruz, CA	Sep 2024 - Dec 2025 (Expected)
<b>B.S. Business Administration: Project Management</b> Regis University - Denver, CO	Aug 2018 - Dec 2022

## Experience

<b>SDE Intern</b> Amazon - Bellevue, WA AWS Keyspaces - Data Storage, Access, and Management Team	Jun 2025 - Present
<b>Teaching Assistant</b> University of California, Santa Cruz - Santa Cruz, CA CSE123B - Engineering Design Project II - Spring 2025 <ul style="list-style-type: none"><li>Assisted five groups of 4-6 students with cloud infrastructure and web application setup for two-quarter-long prototype IoT devices.</li></ul> CSE111 - Advanced Programming (C++) - Winter 2025 <ul style="list-style-type: none"><li>Guided 50+ undergraduate students through a quarter-long C++ group project.</li><li>Performed code reviews with groups of 4-6 students, giving feedback on code quality.</li></ul>	Jan 2025 - Jun 2025
<b>Software Engineer Intern</b> Archon.gg - Remote (Contract) <ul style="list-style-type: none"><li>Significantly improved accuracy of LLM-powered code generator for warcraftlogs.com by taking trainingcode example count from 5 to 50+.</li></ul>	Jan 2025 - May 2025
<b>Software Engineer</b> X5E, Inc. - Remote (Contract) <ul style="list-style-type: none"><li>Primarily focused on the development of open source distributed DBMS based on Conflict-Free Replicated Data Types, with TypeScript and Python implementations.</li><li>Implemented additional data stores, data structures, integration tests, unit tests, and database performance tests in both Python and TypeScript.</li><li>Oversaw all development operations by utilizing GitHub actions, Docker, and Jenkins to automate builds and tests across multiple operating systems and architectures.</li><li>Automated package publishing and documentation generation utilizing language specific tools (e.g., readthedocs).</li><li>Created and optimized algorithms for data retrieval, creation, and synchronization.</li></ul>	Apr 2023 - Jan 2025