Keenan Schott

kschott@uw.edu | keenanschott.com | Seattle, WA | 206-475-6068

EDUCATION

University of Washington – M.S. in Information Management
Program/Product Management & Consulting (PPMC) Specialization
Sep 2024 – Jun 2025
GPA: 4.00

Colorado School of Mines – B.S. in Computer Science
Computer Engineering Specialization
Summa Cum Laude, Dean's List x6, Cyber Defense Education Certificate
Aug 2021 – May 2024
GPA: 3.94

EXPERIENCE

Software Engineer Intern
ICR, Inc.
May 2024 – Aug 2024
Louisville, CO

- Built a Request for Information (RFI) web application for a gov. client using React and TypeScript.
- Enhanced data querying efficiency by **18%** through caching and query keys with TanStack.
- Developed an AI autocompletion tool using ICR's internal LLM, reducing RFI completion time by **10%**.
- Designed RFI data visualizations using Elasticsearch and Recharts for improved data analysis.

Software Engineer Intern
Datava
May 2023 – Apr 2024
Westminster, CO

- Optimized query processing and system performance for **200+** credit unions across the Western U.S.
- Created API endpoints in PHP using PDO to process, sanitize, and translate user input into PostgreSQL queries.
- Led development of **30+** JavaScript components to introduce support for PostgreSQL-specific features.
- Automated API documentation using Swagger for improved maintainability and developer onboarding.

Teaching Assistant
CS@Mines
Dec 2021 – Dec 2023
Golden, CO

- Managed **300+** students over four semesters as a TA, teaching Python and software basics.
- Assisted in transitioning CSCI 102 to CSCI 128, focusing on computer science's societal impact.

RESEARCH

Research Assistant
Mines Interactive Robotics Research Lab
Oct 2022 – Mar 2023
Golden, CO

- Researched perceptions of robot pointing gestures, published at the **2024 ACM/IEEE HRI Conference**.
- Used R to analyze data from experiments with human participants interacting with robots and virtual reality.

PROJECTS

arbitragecalculatorus.com
May 2023 – Jan 2025

- Constructed a web app using HTML, CSS, and JavaScript that integrates with a real-time API and implements data parsing and filtering logic to display profitable arbitrage opportunities across U.S.-based online marketplaces.

Mines High School Programming Competition
Jan 2024 – Apr 2024

- Formulated a programming problem for the annual competition; authored the problem statement in LaTeX, designed and validated test inputs using Python, developed model solutions, and volunteered in person.

Clue
Jan 2023 – Jun 2023

- Redesigned the classic game Clue as part of the CSCI 306 course, showcasing software engineering skills through advanced object-oriented programming principles and comprehensive unit testing in Java.

Singular Value Decomposition Image Compression
Apr 2023

- Applied Singular Value Decomposition (SVD) to efficiently compress images while preserving key visual information, using Python's robust libraries to display the original image, compression ratio, and retained data.

SKILLS

Languages: Python, C, C++, Java, Rust, Go, OCaml, Bash, SQL, R, TypeScript, PHP, HTML, CSS/SCSS
Technologies & Frameworks: React, Node.js, JUnit, NumPy, PostgreSQL, MongoDB, Swagger, MUI, TanStack
Tools & Platforms: Git, Linux, Docker, Jenkins, CI/CD, Wireshark, Jira, UML, Unit Testing, Microcontrollers