

KEENAN SCHOTT

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EDUCATION

University of Washington - M.S. in Information Management
Program/Product Management & Consulting (PPMC) Specialization

Sep 2024 - Aug 2025

GPA: TBD

Colorado School of Mines - B.S. in Computer Science

Aug 2021 - May 2024

Computer Engineering Specialization

GPA: 3.94

Summa Cum Laude, Dean's List x6, Cyber Defense Education Certificate

EXPERIENCE

Software Engineer Intern | ICR, Inc.

May 2024 - Present

- Built new features for the JNWC's Request for Information (RFI) web application in **React** and **TypeScript**, which included an advanced RFI filtering tool and NLP capabilities through **Ollama** to enhance RFI autofill
- Revamped the application's CI/CD; enhanced linting, optimized the Gitlab pipeline, implemented comprehensive unit testing, and orchestrated delivery via **Docker** and Jenkins

Software Engineer Intern | Datava

May 2023 - Apr 2024

- Spearheaded the implementation of robust **PostgreSQL** support catering to credit unions throughout the Western United States, leveraging **PHP** and PHP Data Objects
- Integrated back-end work into **JavaScript** components in collaboration with the front-end team using an Agile framework and **Git**, enhancing the functionality of the query browser interface

Teaching Assistant | Colorado School of Mines

Dec 2021 - Dec 2023

- Managed 300+ introductory Computer Science students over 4 semesters; hosted weekly office hours and taught **Python**, software basics, and programming concepts, such as data types, functions, and recursion

RESEARCH

Research Assistant | Mines Interactive Robotics Research

Oct 2022 - Mar 2023

- Explored perceptions of abstract pointing gestures exhibited by robots; the resulting research was published in a [conference paper](#) and presented at the 2024 ACM/IEEE conference on **Human-Robot Interaction**
- Analyzed experimental results involving human participants engaging with robots and virtual reality settings using **R** to rigorously test and quantify research hypotheses

PROJECTS

CS Curriculum Flowchart | Full-Stack Development

Jul 2023 - Aug 2023

- Harnessed **JavaScript**, **React**, and **PostgreSQL** to provide students with an engaging tool for visually interlinking courses within a dynamic flowchart as an alternative to university-provided, static flowcharts

Arbitrage Calculator | Full-Stack Development

May 2023 - Jun 2023

- Employed a real-time sports betting API to strategically identify arbitrage opportunities within online markets, ensuring assured profits through the adept utilization of **PHP** and **JavaScript**

Clue | Full-Stack Development

Jan 2023 - Jun 2023

- Demonstrated software engineering prowess through a reimagining of the classic game Clue in the CSCI 306 course, employing advanced object-oriented programming (OOP) techniques and unit testing in **Java**

Singular Value Decomposition Image Compression | Full-Stack Development

Apr 2023

- Utilized my understanding of SVD to elegantly compress images while retaining essential information, employing **Python**'s versatile toolkit to display the original image, compression ratio, and conserved data

TECHNICAL SKILLS

Programming Languages | Python, Java, PHP, C/C++, JavaScript, TypeScript, Rust, Go, Bash, HTML, CSS, SQL, R
Technologies | Linux, React, Node, Bootstrap, JUnit, REST APIs, NumPy, PostgreSQL, MySQL, MongoDB, Ollama
Developer Tools | Git, GitHub, Gitlab, Docker, Jenkins, Agile, CI/CD