KEENAN SCHOTT

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EDUCATION

Colorado School of Mines- Bachelor of Computer Engineering *May 2024*
Awards: Dean's List (5/5 semesters), The Trade Desk, Datava C-MAPP Scholar *3.929 Cumulative GPA*
Colorado School of Mines- Master of Computer Science *May 2025*

TECHNICAL SKILLS

Relevant Coursework| Algorithms, Data Structures, Advanced Software Engineering, Database Management, Computer Networks
Programming Languages| Python, Java, PHP, C++, JavaScript, Rust, Bash, HTML, CSS, SQL, R
Technologies| React, Node, Bootstrap, JUnit, REST API, Tkinter, Swing, NumPy, PostgreSQL, MySQL, MSSQL, Linux
Developer Tools| Git, GitHub, Agile, Unit Testing

EXPERIENCE

Software Engineering Intern | Datava *May 2023 – Present*

- Spearheaded the implementation of robust **PostgreSQL** support for a streamlined front-end interface catering to credit unions throughout the Western United States, leveraging the power of **PHP** and **PHP Data Objects**
- Operated within an Agile framework on an enterprise production scale, contributing actively to daily stand-ups and harnessing the full potential of Git's collaborative features
- Integrated **JavaScript** components seamlessly, enhancing query/table browser interface functionality and user interactivity for an optimal experience

Teaching Assistant | Colorado School of Mines *Dec 2021 – Jan 2024*

- Managed 80+ intro Computer Science students, providing timely assistance, handling administrative tasks, and hosting weekly office hours for optimal class efficiency
- Taught **Python**, software basics, and programming concepts by simplifying ideas like data types, logic flow, and functions for easy student comprehension

Research Assistant | Mines Interactive Robotics Research *Oct 2022 – Jun 2023*

- Explored human perception of non-deictic gestures exhibited by robots
- Lead hands-on experiments and consistent data collection involving human participants engaging with robots and virtual reality settings, rigorously testing and quantifying research hypotheses on a weekly cadence

PROJECTS

CS Curriculum Flowchart | Full-Stack Development *Jul 2023 – Aug 2023*

- Harnessed the power of **JavaScript**, **React**, and **Node** to provide students with an engaging tool for visually interlinking courses within a dynamic flowchart
- Elevated user experience with an elegant and user-friendly front-end, made possible through the utilization of **Bootstrap**
- Integrated **PostgreSQL** for seamless login and efficient data storage, enhancing user experience with preserved 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**
- Engineered a polished front-end interface that effectively showcased identified arbitrage opportunities, harnessing **HTML** and **CSS**

Clue | Full-Stack Development *Jan 2023 – Jun 2023*

- Demonstrated my software engineering expertise through a reimagining of the classic game Clue during the course, employing advanced object-oriented programming (OOP) techniques and unit testing in **Java**
- Leveraged **Swing** to create an engaging front-end, highlighting my proficiency in crafting interactive and visually appealing user interfaces

Singular Value Decomposition Image Compression | Full-Stack Development *Apr 2023*

- Utilized my understanding of Singular Value Decomposition from Linear Algebra to elegantly compress images while retaining essential information, employing **Python**'s versatile toolkit
- Crafted a **Tkinter** interface, seamlessly displaying the original image, compression ratio, and conserved information