

Keenan Schott

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EDUCATION

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| University of Washington – M.S. in Information Management Program/Product Management & Consulting (PPMC) Specialization | Sep 2024 – Aug 2025 |
| 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

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| Software Engineer Intern ICR, Inc. | May 2024 – Aug 2024 Louisville, CO |
| <ul style="list-style-type: none">Designed a Request for Information (RFI) web application for a gov. client using React and TypeScript; developed a feature using Ollama and ICR's LLM to expedite RFI completion and response selection.Enhanced data querying efficiency by leveraging caching and query keys with TanStack, created RFI data visualizations using Elasticsearch with Recharts, and integrated linting and testing into CI/CD pipelines. | |
| Software Engineer Intern Datava | May 2023 – Apr 2024 Westminster, CO |
| <ul style="list-style-type: none">Built an API, documented using Swagger, to process, sanitize, and translate user input into PostgreSQL queries using PHP and PHP Data Objects to cater to the needs of credit unions throughout the Western United States.Oversaw the creation of new front-end components using JavaScript to support features exclusive to PostgreSQL, enhancing the functionality of the query browser interface. | |
| Teaching Assistant Colorado School of Mines | Dec 2021 – Dec 2023 Golden, CO |
| <ul style="list-style-type: none">Managed over 300 introductory computer science students over four semesters; hosted weekly office hours and taught Python, software basics, and programming concepts, such as data types, functions, and recursion. | |

RESEARCH

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| Research Assistant Mines Interactive Robotics Research | Oct 2022 – Mar 2023 Golden, CO |
| <ul style="list-style-type: none">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

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| Mines High School Programming Competition | Jan 2024 – Apr 2024 |
| <ul style="list-style-type: none">Formulated a problem, composed the problem statement using LaTeX, designed and validated its inputs using Python, and devised model solutions for the annual competition. | |
| CS Curriculum Flowchart | Jul 2023 – Aug 2023 |
| <ul style="list-style-type: none">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. | |
| Clue | Jan 2023 – Jun 2023 |
| <ul style="list-style-type: none">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 | Apr 2023 |
| <ul style="list-style-type: none">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. | |

SKILLS

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