Michael Maggiore

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Education

Colorado School of Mines — Golden, CO

Master of Science in Computer Science — Graduation: May 2025 | GPA: N/A

Bachelor of Science in Computer Science — Graduation: May 2024 | GPA: 3.752

Honors: Lockheed Martin C-MAPP Scholar, MURF Scholar, Dean's List

Relevant Coursework: Algorithms, Operating Systems, Theory of Computation, Database Management, Web Programming and Applications, Computer Networks, Advanced Machine Learning, Computer Simulation

Experience

Software Engineer Intern — May 2024 - Aug. 2024

Chevron — *Greeley, CO*

- Designed a dashboard to assess the integrity of high-risk critical wells using **HTML, CSS, and JavaScript** with **React**. Integrated a GIS component via **Google Maps API** to visually represent a well's geographical location.

Software Engineer Intern — Jan. 2024 - May 2024

Datava — *Wheat Ridge, CO*

- Developed and maintained a statistics dashboard to track user email activity, supporting business unit operations. Implemented a user interface with **JavaScript, PHP, and MySQL** for filtering emails based on predefined user categories, leading to improved efficiency in email management.

Teaching Assistant — Aug. 2023 - May 2024

Colorado School of Mines — *Golden, CO*

- Assisted students in CSCI 306 (Software Engineering) labs with conceptual and technical help.

Software Engineer Intern — May 2023 - Aug. 2023

CACI — *Westminster, CO*

- Built an internal full-stack web application using **Python, HTML, CSS, and Typescript** with a **Vue.js** framework, to conduct **5G** and **LTE** surveys on commercial modems.
- Implemented a robust backend by creating **REST API** endpoints using **Node.js, Express.js, and MongoDB** to efficiently store and manage cellular network data.
- Created a testing infrastructure through **Docker**, unit tests, and by integrating a **CI/CD pipeline** with GitLab.

Mines Undergraduate Research Fellow — May 2022 - May 2023

Colorado School of Mines — *Golden, CO*

- Safeguarded users' personal data by implementing neural network models like Mask R-CNN to IoT video data.
- Compared performance of on-device object detection versus on-server detection by leveraging a **Raspberry Pi** and **AWS**. Simulated top commercially available cameras by using **TensorFlow and Python**.

Technology Intern — May 2022 - Aug. 2022

Poly — *Westminster, CO*

- Created an app with **Python's Tkinter** Library to allow multiple designated endpoints to quickly connect to a video conferencing room under the control of a single host, reducing company meeting times by **50%**.
- Conducted cross-platform analysis of the video and sound quality from various competitors' equipment using **Pandas** and **Matplotlib**.

Technical Skills

Languages: *Experienced in* - Python, Java, C++, HTML/CSS, PHP, SQL | *Familiar with* - C, JavaScript, Swift

Frameworks: Vue.js, Next.js, Express.js, Node.js, jQuery, Flask, JUnit, FastAPI, Google Maps API

Developer Tools: Docker, Git, AWS, MongoDB, Visual Studio, VS Code, PyCharm, IntelliJ, Eclipse

Libraries: React, TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib