

James Shima Jr.

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Education

Bachelor of Science in Computer Science

Colorado School of Mines, Golden, CO

Dec 2023

GPA 3.76

C-MAPP Scholar | Student Ambassador | Teaching Assistant

Master of Science in Computer Science

Colorado School of Mines, Golden, CO

Dec 2024

Work Experience

Software Engineer Intern

May 2023 - Aug 2023

CACI, Westminster, CO

- Passive 5G cellular surveying using commercial cellular modems (Python/Vue.js)
- Developed fullstack application to scan and decode NR/LTE 3GPP packets
- Created visualization of gps and cell data using the Google Maps API

Data Science Intern

Oct 2022 - Apr 2023

Tully, Remote

- Deep Learning on accelerometer data to classify different weightlifting exercises
- Used multilayered CNN on x, y and z axis acceleration tensors (Python/TensorFlow)
- Processed data with LPF to prevent accelerometer drift and applied Simpson's Rule

Software Engineer Intern

Jun 2022 - Aug 2022

Cobalt Inc. Golden, CO

- Developed a Windows application for visualizing brainwave data (C#/WPF)
- Applied a digital signal processing algorithm for alpha coherence (Matlab)
- Collected real-world EEG data on numerous patients

Skills

Languages: Python | C++ | C | Bash | Java | Javascript | Matlab | PostgreSQL | C# | HTML/CSS

Frameworks: Vue.js | FastAPI | Swing | WPF | Pytest | JUnit | TensorFlow | Scikit-learn

Tools: Git | Docker | CI/CD | Wireshark | Confluence | Jira | Microcontrollers | Modems

Projects

Personal Website - (HTML/CSS/Javascript)

- A website to display the following projects and my current work: <https://jmshima01.github.io>

WebMD Plus - (PostgreSQL/Python)

- Created a relational database, UI, and Random Forest Classifier to predict a patient's diagnosis

Deep Learning Exercise Classifier - (Python/TensorFlow)

- CNN to classify exercises using accelerometer data. Applied scientific computing and data cleansing.

Car Theft Prevention RF Jammer - (C/C++)

- Developed a frequency band jammer to prevent car theft using CC1101 transceivers and an arduino.

Clue Game - (Java)

- Designed the board game Clue from the ground up. Applied OOP, agile scrum and a testing pipeline.