

James Shima Jr.

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Education

Bachelor of Science in Computer Engineering

Colorado School of Mines, Golden, CO

C-MAPP Scholar | Student Ambassador | CS Teaching Assistant

Dec 2023

GPA: 3.76

Master of Science in Computer Science

Colorado School of Mines, Golden, CO

Dec 2024

(In Progress)

Work Experience

Software Engineer Intern

CACI, Westminster, CO

May 2023 - Aug 2023

- Passive 5G cellular surveying using commercial 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

Tully, Remote

Oct 2022 - April 2023

- Applied Deep Learning and a CNN on acceleration data to classify exercises (Python)
- Practical experience using accelerometers and gyroscopes
- Processed data with a LPF and practiced scientific computing methods

Software Engineer Intern

Cobalt Inc, Golden, CO

June 2022 - Aug 2022

- 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>

Clue Game - (Java)

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

WebMD Plus - (PostgreSQL/Python)

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

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.