Joshua Fentress

✉ Joshua.c.fentress@gmail.com   📞 2679809281   📍 Lakewood, CO   🔗 https://joshfen.github.io/me/

github.com/JoshFen   linkedin.com/in/joshuafentress

EDUCATION

Bachelors of Science in Computer Science   Aug 2021 – May 2023
Pennsylvania State University
4x Dean's List, Cum Laude

Associates of Science in Computer Science   Aug 2019 – May 2021
Montgomery County Community College
4x Dean's List, Cum Laude

PROFESSIONAL EXPERIENCE

Software Engineer Intern   Jan 2023 – May 2023
Lockheed Martin
- AI Swarm based search and rescue mission utilizing Robotis' Turtlebot3 and M5 Stack Units.
- Team-based AGILE development environment to ensure project compliance with focus on data control.
- Integrated HMAC data transfer, MongoDB information storage and blockchain technologies.
- Linux based Ubuntu environment design limited overhead of UI, enhanced computational output.

Software Developer   Aug 2022 – Feb 2023
Pennsylvania State Univsersity
- Developed desktop application for Penn State Residence and Housing Services to automate dorm assignment.
- Built using Node JS and Electron to assign students in compliance with department policies.

Information Technology Intern   Jun 2022 – Aug 2022
DOCS Health
- Oversaw installation, configuration, and maintenance of hardware and software systems.
- Unix based design, development and policy implementation.
- Server based virtual machine management.

PROJECTS

Off-Piste
Ski Resort Navigation Web App
- Python web-app built on Django framework, uses front-end to back-end communication using Ajax.
- Combines OpenStreetMap data with routing algorithms to provide an optimal path between locations.

ASL Reader
Real-time ASL Hand Sign Recognition Web App
- Computer vision application which detects and predicts ASL hand gestures.
- Built using Django, Google's MediaPipe, Tensorflow API and deployed on Heroku.

Take-Note
Interactive Note Taking
- Web application for creating and managing notes using Node.js and TypeScript, ensuring robust back-end functionality and type safety.
- Integrated a front-end framework for a responsive and user-friendly interface.

Sell.gg
Seller's Android Application
- Real-time pricing data using eBay's seller's API for competitive listing.
- Developed using Java and XML on Android Studio.

SKILLS

Programming Languages
Java, Python, C, C#, C++, JavaScript, TypeScript, SQL, HTML, CSS, Racket, Plait, MIPS

Development Tools
Git, Django, Node, Electron, Express, React, MySQL Server, MongoDB, Ajax, Windows, macOS, Linux