

William Emery

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Education

University of Denver June 2024

Bachelor of Science in Computer Science. Minors in Mathematics, Writing Practices, and Kinesiology and Sports Studies

- **Courses:** Computer Science I II and III (focus on Java programming), Discrete Structures in Computer Science (Discrete Mathematics), Data Structures and Algorithms II, Software Engineering I, Software for AI Robotics, Topics in Artificial Intelligence, Large Language Model Applications, Python for Science, Intro To Artificial Intelligence, Web Programming, Web Programming II, and Ethical Hacking.
- **Math Courses:** Calculus I, II, and III, Mathematical Reasoning and Proof.

Experience

Autonomous Robotics and Interactive Systems Experimental Laboratory

2023 - Present

Lab Assistant, Software Developer

Worked on ensuring hardware and software was working and up to date for researchers. Worked with robot hardware to ensure smooth integration between hardware and software. Made repairs as needed. Worked with Python, ROS, and C++ on the development side to continue work on smooth integration. Occasionally used CAD software to manufacture parts needed for the lab.

Kanso Software

2021 - 2023

Intern, Software Engineer

Worked on feature requests and bug fixes in a large Angular web app using TypeScript, JavaScript, and C#. Learned valuable skills in working in an Agile software development environment as well as how to work with an old and unfamiliar codebase.

King Soopers

2019 - 2020

Front-End Clerk

Bagged and scanned customers' groceries. Due to excellent performance and teamwork abilities started training new hires. Learned valuable people skills and crisis management during the onset of COVID-19.

Mountain Youth Musicals, Ovation West Performing Arts

2017 - 2019

Lighting Designer and Technician

Designed the lighting for multiple theatrical productions; programmed light cues in automated software; ran the cue software during shows. Moved to a leadership role managing the tech booth team. Learned how to think creatively and solve problems efficiently, often under pressure.

Projects

Flavor Fuel

Fall 2023

Web app deployed to a server hosting a food logger.

Technical Skills: Full stack web development, Web app deployment, Web Scrapping, Algorithms

Machine Readable Recipes

Spring 2023

Worked with a team of other students in an Agile development environment to parse recipes in a robot-understandable format.

Technical Skills: Git, SQL, Python, Natural Language Processing, Command Line App, Sentiment Analysis

Pokemon Battle Predictor

Spring 2023

Program that interfaces with an online Pokemon battle simulator and predicts the outcome of battles using machine learning.

Technical Skills: Scikit-Learn, Web Scrapping

Skills

Programming Languages: Java, JavaScript, TypeScript C, C++, Haskell, C#, Python, SQL

Web Development: HTML, CSS, EJS, Nodejs, Reactjs, Angular, Angularjs, Responsive Design, jQuery, Web servers, MongoDB, Express, RESTful API

AI/Robotics: TensorFlow, Scikit-Learn, ROS, UAVs, UGVs, RAG

DevOps: Linux, Git, App Deployment, Docker, Command Line

Languages: English

Activities

- Board member for high school theatre program
- Improvisational Comedy Team
 - High school and University
 - Learned teamwork, creativity skills, and rapid unprompted problem solving
- Film Production Club
 - University
 - Furthered teamwork skills and learned film production skills