

Mitchell Mercer

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EDUCATION

Bachelor of Science in Computer Science

Dec 2023

California State University Northridge

Associate's in Japanese

August 2021

Los Angeles Pierce College

EXPERIENCE

Student Engineer

October 2023 – Present

Los Angeles Dept. of Sanitation

Playa Del Rey, CA

- Evaluate event logs and metrics of Distributed Control Systems
- Assisted in reducing nuisance alarms by 10 percent
- Create training materials for new Student Engineers

Security Guard

Jun. 2023 – October 2023

Allied Universal Security

Simi Valley, CA

- Oversaw daily monitoring and patrolled buildings, grounds, and work sites
- Responded quickly to incidents and calmly resolved active crises
- Successfully resolved 3 critical incidents

Server

May 2021 – Apr. 2023

Nordstrom

Canoga Park, CA

- Achieved 10,000 dollars revenue weekly
- Swiftly and effectively took detailed and complex food orders with accuracy and mindfulness of client needs
- Cultivated warm relationships with regular customers

PROJECTS

The Crucible | *Python, MongoDB, FFmpeg*

Sept. 2023 - Dec. 2023

- The Crucible is a python application that takes a video provided at runtime, and removes frames of the video as requested by "editors" for further Post-Processing.
- Video processed with FFmpeg.
- Final output uploaded via API to 3rd party via API, or created local Excel file depending on runtime arguments
- Utilized MongoDB to retrieve "work-order" and select frames to be retrieved

Non Amazona | *MySQL, React, Flask, Git*

Sept. 2023 - Dec. 2023

- Created a MySQL database resistant to SQL Injection, and Bot attack/Spoofing
- Developed a website in React, runs locally, to display the items in the database, purchase items, leave reviews, etc
- Implemented a control panel in front end to test various attacks and create and remove items

EarWorm | *Firebase, React, Git*

Aug. 2022 – May 2023

- Earworm is an application akin to Tinder, that matches users based on their music preferences
- Utilizes Spotify's API to retrieve users Spotify listening data and assign each a music taste
- Deployed app to the internet via Firebase

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Gnu C Compiler/Debugger (GCC/GDB), IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib