

# Fernando Ramirez

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## Education

### University of Houston

May 2024

Bachelor of Science in Computer Science, Minor in Mathematics - GPA: 3.7/4.0

Houston, TX

- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Database Systems, Computer Networks

## Experience

### Amazon Web Services

May 2023 - August 2023

Software Engineer Intern - AWS CloudTrail Lake

Seattle, WA

- **Technologies:** Java, JUnit, Mockito, Guice, Project Lombok, TypeScript, AWS
- Improved the free trial for **+1M customers** by updating from a storage limit of 5GB to a time-based limit of 7 days
- Created a thread-safe cache accessor for free trial info, leading to a **60% increase in data retrieval efficiency**
- Led the development of a new feature, allowing first-time customers to import past 14 days of event data for free
- **Increased unit test coverage by 20%** across 2 critical services part of the distributed system

### University of Houston

January 2023 - Present

Teaching Assistant - COSC 1336: Computer Science and Programming

Houston, TX

- **Technologies:** Python
- Reinforced coding lessons for **120+ students** on the basic phases of software development
- Led weekly labs, conducted office hours, code-reviewed, and provided feedback for programming assignments

### UnitedHealth Group

September 2022 - May 2023

Software Engineer Intern - Innovation Lab

Minneapolis, MN

- **Technologies:** React.js, JavaScript, Express.js, Node.js, MaterialUI
- Led the development of an internal web portal that **reduced the lookup time for tools and documentation by 40%**
- Integrated a chatbot to the portal, automating **50+ hours** of work a year by reducing the number of support tickets

### Buzly

June 2022 - August 2022

Software Engineer Intern - University Platform

Sacramento, CA

- **Technologies:** React.js, JavaScript, Express.js, Node.js, Tailwind, Figma, Redux, MongoDB, Docker, Nginx, AWS
- Built an admin dashboard to give universities insights on their posts and to **advertise to 12,600+ Buzly app users**
- **Worked directly with the CTO** to develop **15+ responsive UI components** based on Figma designs

## Projects

### Turn-Based Role-Playing Game | C++, SDL2

- Developed a 2D turn-based battle game that was **voted best among 144 students** in my programming course
- Utilized SDL2 to create a GUI that supports actions such as view character stats, attack, run, and save progress
- Implemented object-oriented programming concepts such as inheritance to create different playable characters

### Robotic Arm | C++, Arduino, JavaScript, Node.js, Express.js, Johnny-Five, HTML, Tailwind

- Engineered an embedded system and full-stack web app for communicating with a robotic arm
- Programmed robotic arm and gripper movement using C++, Arduino and HTML frontend for controlling the arm
- **Achieved 2nd place out of 50+ developers** in project demo presentations as part of a coding organization

### Emotion Recognition Music Player | Python, Flask, OpenCV, Tensorflow, NumPy, JavaScript, HTML, CSS, Spotify API

- Led team of 4 to create a web app to capture moods from facial expressions and get a relevant song from Spotify
- Used Flask and machine learning model based on a **data set of 25,000+ facial expressions** to create the backend

## Technical Skills

**Languages:** Python, C++, JavaScript, TypeScript, Java, HTML, CSS, SQL

**Frameworks & Libraries:** React.js, Redux, Express.js, Node.js, Flask, Tailwind, MaterialUI, JUnit, Mockito, OpenCV

**Developer Tools:** Git, GitHub, Postman, VS Code, IntelliJ PyCharm, Vim, AWS, MongoDB