# 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 user 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 microservices part of the distributed system

**University of Houston**                                          January 2023 - Present
*Teaching Assistant - COSC 1336: Computer Science and Programming*                        *Houston, TX*
- Reinforced coding lessons for **120+ students** on the basic phases of software development using Python
- 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, AWS
- Designed and developed an internal web portal that **reduced the lookup time for tools and documentation by 40%**
- Utilized company UI/UX design pattern system across **20+ React.js components** to maintain brand consistency
- Integrated AWS Lex chatbot to the web portal, **saving 110+ hours/year** of manual work by reducing support tickets

**Buzly**                                                      June 2022 - August 2022
*Software Engineer Intern - University Platform*                                *Sacramento, CA*
- **Technologies:** React.js, JavaScript, Express.js, Node.js, Tailwind, Redux, MongoDB, Docker, 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 React.js components** based on Figma UI/UX designs
- Shipped core features to production such as user sign-up, filtering posts, and creating posts

## Projects

**Turn-Based Role-Playing Game** | *C++, SDL2, UML*
- 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

## Awards

**Jane Street, FOCUS Fellow**                                                        January 2023
**1st Place, VEX Robotics, CFISD Tournament Champions**                                November 2019