

# Alvaro Urtaza

281-323-9605 | [alvaroaurtaza@gmail.com](mailto:alvaroaurtaza@gmail.com) | [linkedin.com/in/alvaro-urtaza](https://linkedin.com/in/alvaro-urtaza) | [github.com/aaurtaza](https://github.com/aaurtaza) | [alvaroaurtaza.com/](https://alvaroaurtaza.com/)

## EDUCATION

### University of Houston

*B.S in Computer Science, Minor in Mathematics, GPA: 3.73/4.0*

August 2021 – December 2024

*Houston, TX*

- Relevant Coursework: Software Design, Data Structures and Algorithms, Data Science and Machine Learning, Operating Systems, Database Systems

## EXPERIENCE

### Paycom

*Software Engineer*

December 2024 – Present

*Dallas, TX*

- Developed application features with **React**, **TypeScript**, and **PHP** to improve performance tracking
- Utilized deployment via **GitLab CI/CD**, **Docker**, and **Kubernetes**, cutting deployment time by 40%
- Enabled **37,000+ clients** to retrieve performance notes for audits via **MySQL**-backed report generation
- Revamped a critical review workflow, reducing task completion time by **50%** and increasing user adoption by **71%**

### Amazon

*Software Engineer Intern*

June 2024 – August 2024

*Austin, TX*

- Redesigned and implemented a **Machine Learning** data pipeline using **Scala** and **Apache Spark**
- Automated **3.5+ years** of training data backfill with **Python**, reducing backfill processing time by **40%**
- Cut debugging time by **60%** by eliminating outdated **SQL** data dependencies, improving forecasting accuracy
- Accelerated data scientists' access to deep-dive data by re-partitioning **AWS** datasets for more intuitive use

### University of Houston

*Computer Science Teaching Assistant*

January 2022 – December 2024

*Houston, TX*

- Reinforced database concepts such as normalization and concurrency control for **250+** students
- Taught weekly labs for **400+** students on fundamental programming concepts with **Python**
- Conducted bi-weekly office hours, helped debug Python code, and provided feedback on **SQL** assignments

## PROJECTS

### ClassBridge | *React Native, TypeScript, Firebase, Tailwind*

- Developed a mobile app using **React Native** and **TypeScript**, promoting financial literacy and education
- Implemented serverless backend with **Firebase**, reducing operational costs by 30% and ensuring scalability
- Introduced English and Spanish multilingual support, increasing user accessibility by 50%

### chatAIR | *React Native, Amadeus API, Express.js, RapidAPI*

- Built a mobile app with 3 teammates at CodeRED Genesis hackathon using **React Native**
- Secured 1st place among 20+ teams in the PROS-sponsored track by delivering an innovative flight search tool
- Incorporated **Amadeus** and **RapidAPI**, enhancing data retrieval speeds by 40%

### E+ | *React, MySQL, Express.js, Node.js*

- Collaborated with a team of 3 developers to build a full-stack web application using **React** and **Express.js**
- Created a platform that streamlined the buying and selling process for the latest gadgets and electronics
- Optimized a **MySQL** database and enhanced data normalization, resulting in 25% reduced data redundancy

## TECHNICAL SKILLS

**Languages:** Python, HTML/CSS/JavaScript, TypeScript, Scala, SQL, C/C++, PHP, Swift, Java

**Developer Tools:** AWS, Git, GitLab, Docker, Kubernetes, Postman, Swagger, MongoDB, MySQL, Figma

**Frameworks/Technologies:** React, Node.js, Express.js, Next.js, React Native, Tailwind CSS