

Alvaro Urtaza

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EDUCATION

University of Houston

August 2021 – December 2024

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

Houston, TX

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

EXPERIENCE

Paycom

December 2024 – Present

Software Engineer

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

June 2024 – August 2024

Software Engineer Intern

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- Cut debugging time by **60%** by eliminating outdated **SQL** data dependencies, improving forecasting accuracy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

January 2022 – December 2024

Computer Science Teaching Assistant

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