Alvaro Urtaza

 $281 - 323 - 9605 \mid \underline{alvaroaurtaza} \\ \underline{alvaroaurtaza} \mid \underline{bluccom/in/alvaro-urtaza} \mid \underline{bluccom/aaurtaza} \mid \underline{alvarourtaza.com/in/alvaro-urtaza} \mid \underline{bluccom/aaurtaza} \mid \underline{bl$

Education

University of Houston

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

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

EXPERIENCE

Amazon

Software Engineer Intern

- Redesigned and implemented a Machine Learning data pipeline using ${\bf Scala}$ and ${\bf Apache\ Spark}$
- 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- Cut debugging time by 60% by eliminating outdated **SQL** data dependencies, improving forecasting accuracy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

 $Computer\ Science\ Teaching\ Assistant$

- Reinforced database concepts such as normalization and concurrency control for 250+ students
- Taught weekly labs for over 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%

$\mathbf{E+} \mid \textit{React, MySQL, Express.js, Node.js}$

- 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

Davxgnubot | Node.js, Discord.js, Replit

- Developed an interactive Discord bot using Discord.js and Node.js for a community of 40+ members
- Optimized the bot by using Replit Cloud, cutting server costs and ensuring 24/7 availability

ACTIVITIES

CougarCS

Events Chair and Course Lead

- Coordinated 40+ events, incorporating member feedback to refine and improve successful concepts
- Partnered with 30+ tutors to share critical updates on labs, assignments, and course material

TECHNICAL SKILLS

Languages: Python, HTML/CSS/JavaScript, Scala, TypeScript, SQL, C/C++, Lua, Java Developer Tools: AWS, Git, Postman, Swagger, MongoDB, MySQL, Figma Frameworks/Technologies: React, Node.js, Express.js, Next.js, React Native, Tailwind CSS

g time by 40%

June 2024 – August 2024

August 2021 - December 2024

January 2022 – Present

Houston, TX

Austin, TX

Houston, TX

February 2024

September 2024

October 2022

January 2022

September 2021 – Present

University of Houston