Alvaro Urtaza

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EDUCATION

University of Houston — Houston, TX
B.S in Computer Science, Minor in Mathematics, GPA: 3.7 — *Aug. 2021 – May 2025*
- Relevant Coursework: Data Structures, Operating Systems, Computer Organization and Architecture, Data Science and Machine Learning

PROJECTS

E+ | *MySQL, Express, React, Node* — October 2022
- Developed a full-stack web application using React as the frontend and Node for the backend
- Implemented a **MySQL** Database to store all the data used for the website
- Used Postman to establish a connection between the web app API and the SQL database

Davxgnubot | *Node, Discord.js, Replit* — January 2022
- Developed a Discord bot in **JavaScript** with Node syntax for a server of over 40 members featuring interactive commands, such as a music player for voice channels
- Made use of webhooks for certain processes such as sending messages under the alias of the bot
- Used Replit's Cloud to make the bot functional all the time without using personal server or computer resources

Automation Scripts | *Python* — July 2022
- Created a compilation of **Python** scripts with the purpose of reducing time accumulated on repetitive tasks by up to 100%

EXPERIENCE

Undergraduate Teaching Assistant — January 2022 – Present
University of Houston — *Houston, TX*
- Assisted the professor with teaching over 300 students the fundamentals of programming using **Python**
- Hosted weekly labs, provided assistance and feedback for **Python** programming assignments
- Responsible for grading assignments and proctoring exams

Program Mentor and Tutor — July 2022 – August 2022
TC Energy Summer Scholars Academy — *Houston, TX*
- Guided 50 recent high school graduates through an accelerated course of Calculus 1 and General Chemistry by helping them understand lecture material and assisting them with their doubts and questions regarding the topics
- Provided Calculus worksheets as well as student supervision during Chemistry labs
- Helped prepare students for their first semester at the University of Houston

ACTIVITIES

Scholar Enrichment Program — September 2021 - Present
Tutor and Office Aide
- Dedicated over 120 hours on tutoring and assisting students with their computer science and math-related courses
- Assisted staff with paperwork and other office tasks

CougarCS — September 2021 - Present
Member and Tutor
- Tutored and assisted over 20 students with their computer science and math-related courses

CodeCoogs — September 2021 - Present
Member
- Participated with a group of 12 members to collaborate on a few projects such as 2D turn-based RPG

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, SQL, Lua, Java, R
Other: AWS, Google Cloud, React, Git, Linux