

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 & Algorithms, Operating Systems, Computer Organization and Architecture, Data Science and Machine Learning

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, SQL, Lua, Java, R

Developer Tools: Visual Studio Code, JetBrains, Linux, AWS, Google Cloud, React, Git, Linux

Frameworks/Technologies: Express, React.js, Next.js, Node.js, Postman, MySQL, MongoDB, Django, Discord.js

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 collection of **Python** scripts, including an automatic YouTube video converter, a webpage data compiler, and a desktop file organizer
- Reduces time spent on repetitive or mundane tasks by up to 100%, effectively eliminating them

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
- Graded programming assignments and served as a proctor for the 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

CougarCS

September 2021 - Present

Course Lead and Tutor

- Advised tutors on course updates, ensuring they were informed on recently released labs and homework assignments
- Tutored and assisted over 25 students in computer science and math disciplines, helping them overcome complex topics and improve academic performance

Scholar Enrichment Program (SEP)

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