

GERARDO RAFAEL BOTE

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EDUCATION

The University of Texas at Austin

Bachelor of Science in Computer Science, Minor in Business, Cert. in Computational Science & Engineering

May 2024

GPA: 3.69

Relevant Coursework: Data Structures, Discrete Math, Scientific Computation, Computer Architecture, Algorithms

SKILLS

Programming Languages	Java, Python, C, C++, HTML, CSS, JavaScript, R, SQL
Frameworks/Libraries	Django, Git, React.js, Node.js, p5.js, CMake, Dialogflow, NumPy, PostgreSQL, Bootstrap
Tools/Platforms	GitHub, Eclipse, Visual Studio Code, Jenkins, Repl.it, Tableau, Heroku

EXPERIENCE

Full Stack Engineering TA Intern – Code Platoon (Remote)

May 2022 - September 2022

- Assisted 33 programming students with full-stack development projects.
- Taught full-stack web development and fundamentals of computer science, including Object-Oriented Programming, Data Structures, and Algorithms.
- Facilitated production-ready full-stack web applications from scratch individually and with Agile teams.
- Directed breakout room sessions to further students' understanding of curriculum after lecture hours.

Undergraduate Proctor – The University of Texas at Austin, Computer Science Department

January 2022 - May 2022

- Lead discussion sections for *Discrete Math* where we rehash topics learned during lecture and solve example problems to prepare students for exams.
- Assessed performance of 200+ students in their ability to apply concepts and evaluate expressions taught in *Discrete Math*.
- Clarified and supported students' understanding of difficult topics through help hours and on Piazza.

Online Instructor – iDTech Virtual Online Tech Camps (Remote)

June 2021 - August 2021

- Adopted the p5.play library for JavaScript to teach library imports for JavaScript files to children, ages 10-13.
- Reinforced game design principles and electrical circuitry design via software demonstrations and resolutions.
- Optimized for time efficiency when creating basic Java searching and sorting algorithms on Repl.it.

PROJECTS

Pokemon Theme Team

June 2022

- Examined the Django framework to fully incorporate HTML and CSS template files into a website.
- Centralized all information coming in from RESTful PokéAPI into streamlined JSON objects.
- Integrated Heroku app deployment to configure app settings and publish project source code via GitHub.

Connect2Health, Freetail Hackers' Longhorn Hack for Humanity (WINNER: Best Overall Hack - First Place)

April 2022

- Formalized a chatbot using Microsoft Azure services to talk about resources regarding COVID-19 and U.S. Healthcare.
- Assisted with the implementation of the Google Maps Platform API into vanilla HTML files.
- Researched different HTML and CSS designs to properly showcase project features.
- Mobilized a team of beginner programmers to plan out the features of our resource website.

Envisage, Freetail Hackers' Changeathon (WINNER: Best Community Change)

May 2021

- Implemented basic webpage elements for a static webpage through custom HTML and CSS files.
- Experimented with JSON files and their format to give the chatbot pre-determined responses, imported through Dialogflow.
- Researched specific Asian-American trends and statistics during the height of #StopAsianHate.

EXTRACURRICULARS

Finance Officer – Society of Asian Scientists and Engineers (SASE)

March 2022 - Present

- Brainstorms and implements Asian-American-centered events for the organization to get outside funding.
- Collaborates with the Fundraising Chair to organize local fundraisers for the UT Austin chapter's general membership.
- Verifies that there is enough engagement in utilizing multiple streams of income and expenses for the chapter.

JPMorgan Chase Software Engineering Virtual Experience Participant

January 2022

- Developed an updating algorithm to change stock prices based on quotes from two sample stocks.
- Utilized React.js and Typescript to continuously update and track changes of stocks over time.
- Created Unit Tests to assert functions of updating stock prices return their expected value.

Secretary – UT Filipino Students Association (UTFSA)

May 2021 - May 2022

- Organized files in Google Drive to streamline information for other officers to use.
- Provided biweekly General Meetings to update general membership on varied UTFSA events.
- Spearheaded different social and cultural groups for local community development and cultural diversity efforts.