

Emmanuel Zapata

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EDUCATION

University of Virginia | *Charlottesville, Virginia*

GPA: 3.51/4.00

Expected May 2024

- Bachelors in Computer Science; Bachelors in Chemistry
- *Relevant Courses:* Data Structures, Algorithms, Software Development Essentials, Software Testing, Artificial Intelligence, HCI in Software Development, Computer Systems and Organization (Operating Systems)

SKILLS/LANGUAGES

- Programming Languages: Java, Python, C, C++, X86 Assembly, HTML, CSS, JavaScript, MATLAB
- Tools: Git, GitHub, React, Bootstrap, Web-APIs, MySQL, SQLite, IDEs (IntelliJ, PyCharm, VSCode), JavaFX, PyGame, JUnit, Mockito, Figma, RSA, Excel
- Fluent in English and Spanish; Intermediate in Italian

RELEVANT EXPERIENCE

Full Stack Spotify Data Visualization Application

August 2023 - Present

- Developing full-stack application featuring integration with the Spotify Web-API and mapVisualizer to gather key artist data, statistics, and popularity based on location over time
- Implementing instant dynamic generation of Web-API keys to handle token expiration, ensuring reliable data access.
- Utilizing Python, React, and Flask for the front-end to back-end connection

Full Stack Course Evaluations Application

November 2023 - December 2023

- Co-Developed CRUD (Create, Read, Update, Delete) Java application for course and review management with a secure login system, course addition/searching, course-review commenting, and user review display
- Utilized JavaFX for GUI, SQLite Databases for persistence, JDBC connections for database interactions

UVA Hospital MOPAT Team App UX/UI Design Project

August 2023 - December 2023

- Co-led design development of MOPAT product in a 4-person team, alongside client, Dr. John Eby
- Product improved patients' understanding of treatment, ordering of line care supplies, and virtual scheduling of appointments via enabled questioning to an AI chat bot and encrypted messaging
- Created prototypes through identification of work roles, conducting interviews, and developing wireframes

Personal Portfolio Web Application

June 2023 - September 2023

- Constructed a personal portfolio website showcasing projects and involvements using Bootstrap, HTML, and CSS
- Created responsive components using JavaScript

Local Socket Chat Application

April 2023 - May 2023

- Devised a command-line, 2-party chat application in C, fulfilling a server-client model
- Allowed client to connect to a specified IP address and port, facilitating targeted communication
- Optimized server to accept a single connection and close listener socket, ensuring resource-efficiency

PyGame Application

November 2022 - December 2022

- Developed a Sharknado and Falldown game in Python, derived from PyGame documentation
- Games included 5 player challenges, sprite-sheet use, enemy detection, collectibles, and restart functionalities

Business Development Intern at MyInterviewClinic | *Charlottesville, Virginia*

August 2022 - January 2023

- Collaborated with a team of 3 to develop strategies for advisors in minority communities helping students navigate the medical school interview process
- Engaged in market research, marketing tools, and search engine optimization techniques to scale and expand the startup
- Created and presented final presentation for public distribution of services

LEADERSHIP EXPERIENCE

Bar Manager and Bartender at Virginian Restaurant Company | *Charlottesville, Virginia*

May 2023 - Present

- Utilized Excel to monitor payment transactions, manage payroll, and maintain and track bar inventory
- Increased net sales by 15% via the implementation of new training procedures

Resident Advisor at University of Virginia | *Charlottesville, Virginia*

August 2022 - Present

- Served as a mentor and advisor for first-year students
- Enforced university policies that are relevant to maintain a safe and welcoming living community
- Composed hall and association-wide programming pertaining to multicultural awareness, academic success, health and wellness, and community engagement

Introductory Chemistry Teaching Assistant at University of Virginia | *Charlottesville, Virginia*

Fall 2021 - January 2024

- Co-led discussion sections, held office hours, and graded exams to improve students' understanding of current topics