

EMERSON CORONEL

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EDUCATION

Rice University, Houston, Texas

August 2021 - May 2024

Bachelor's in Computer Science

Relevant Coursework: Concurrent Program Design, Algorithmic Reasoning, Practical Machine Learning, Compiler Construction, Operating Systems, Linear Algebra, Ordinary Differential Equations

Programming Skills: Javascript (Node, Typescript, jQuery, Express), React, Python (NLTK, Django, Pandas, PyTorch), CSS (Bootstrap, Figma), Java, Git, Go, Kali Linux

General Skills: Adobe Photoshop, Final Cut Pro, Notion, Spanish, Italian

PROJECTS

Personal Website, emersoncoronel.com

May - June 2024

- Designed and developed a personal portfolio website front-end using React, Bootstrap, and CSS
- Utilized professional development standards concerning version control, deployment, and organization
- Implemented backend functionality with Node.js and Express

Messaging App and Database, Rice University, Houston, TX

August - December 2023

- Constructed a NoSQL database from scratch in Golang with concurrent Fetch API request handling
- Designed and built a Typescript/HTML5/CSS front end implementation of the NoSQL database
- Incorporated first principles programming, building complex systems without modern tools or packages
- Collaborated on a team of engineers to distribute tasks and maximize individual strengths

New Ranking Student Feedback Website, New Direction, Tel Aviv, Israel

June - August 2023

- Created and managed Python (Django), HTML5/CSS/JS, SQL, Google Cloud, and Git projects
- Learned the full stack structure, including backend frameworks, SQL databases, and frontend design
- Demonstrated a proactive approach to learning new tools and solving complex problems independently

Linguistic Speech Analysis Toolkit, Dr. Randi Martin's Lab, Houston, TX

January 2023 - January 2024

- Designed a program to produce a comprehensive formatted linguistic analysis from raw speech data
- Utilized Python's NLTK to perform linguistic analysis, optimizing I/O for clarity and robustness
- Saved the lab hundreds of hours of manual analysis by working to discover and pinpoint inefficiencies

EXPERIENCE

Full Stack Development Intern

June - August 2023

New Direction, Tel Aviv, Israel

- Designed, developed, tested, and iterated a full stack product from end to end
- Collaborated closely with company administrators to communicate ideas throughout development
- Demonstrated the ability to learn quickly, adapt to changing environments, and lead within a team

Research Assistant

January 2023 - January 2024

Dr. Randi Martin's Lab, Houston, TX

- Provided detailed linguistic analysis on human language production using natural language processing
- Discovered, discussed, and designed solutions for non-technical researchers to improve lab efficiency

Video Editor

September 2021 - February 2024

Houston Jewish History Archive, Houston, TX

- Edited large video interviews using Final Cut Pro for production
- Created slides and images using Adobe Photoshop