

# Mark Carson

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markcarson.dev



## SUMMARY

An experienced and thoroughly educated developer with 7 years of passionate self-driven programming experience looking to use technology to build socially impactful tools.

## EXPERIENCE

### Systems Integration Programmer Student Assistant

CSULB Enrollment Services • September 2022 - February 2023 • Long Beach, CA

- Implemented application enhancements to the process management system to ease various cross-department business procedures.
- Managed documentation through a large inter-department CMS/PMS upgrade process.
- Debugged and developed improvements to backend CMS Java applications.
- Composed test cases for various backend Java and Javascript applications

### Desktop Support Student Assistant

CSULB Enrollment Services • February 2022 - September 2022 • Long Beach, CA

- Utilized communication and interpersonal skills in a large and fast paced professional environment by assisting with technical issues on more than 300 devices including desktop and laptop computers with very little to no supervision.
- Collaborated with a small team to prepare system images and deploy them over 150 systems to staff members.
- Composed powershell and batch scripts to improve software deployment efficiency.
- Employed strong critical thinking and troubleshooting skills to solve diverse software and hardware problems.

## PROJECTS

### Forum Ipsum

March 2023 - July 2023

- Lead a team of 4 on the development of an LLM-moderated forum web application with complete user authentication integration.
- Designed and implemented forum frontend, backend application, and database using HTML5 and JS, Flask, and MongoDB, all virtualized using Docker.
- Collaborated with teammates to train a DNN model for sentiment analysis and an LLM model for hate speech detection, misinformation classification, and rephrasing suggestions.

### Portfolio Website

January 2023 - Present

- Designed a simple personal portfolio website in Figma to optimize for mobile and desktop display with the purpose of showcasing experience and projects
- Implemented planned design using vanilla HTML5 and JS.

### Frag Academy Discord Bot and Auxiliary Website

November 2017 - May 2019

- Spearheaded the development of a tournament assistant bot using the DiscordJS module for NodeJS.
- Parsed API data from 6+ sources and used data science methods to create an Elo system for players based on their competitive match history.
- Integrated user experience with the auxiliary website for supplemental materials to help players learn fundamental skills.
- Designed and developed a website to provide supplemental information to prospective competitive Esport players using HTML5 and JQuery.

## EDUCATION

### Bachelor of Science in Computer Science

August 2020 - Present (Planned completion in December 2024)

California State University, Long Beach • Long Beach, CA • 3.41 GPA

### Study Abroad in Hamburg

March 2023 - August 2023

Hamburg University of Applied Sciences • Hamburg, DE

\*Studies centered around elective research in machine learning, data science, and smart sensing robotics

## SKILL STACK

Data Science: Python (Jupyter, SciKitLearn, Tensorflow, Pandas, Matplotlib)

Software Development: Python, Java, C++, Rust, C#, Docker

Full-Stack Web Development: Python (Flask), HTML5 + CSS, JavaScript (jQuery, NodeJS), PHP