

Name

San Francisco Bay Area | email | phone number | github

EDUCATION

Purdue University

Bachelor of Science in Computer Engineering

GPA: 3.7/4.0

Relevant Coursework: Software Engineering, Data Structures, Applied Algorithms for VLSI, Computer Security, Object-Oriented Programming, Digital System Design, Microprocessor Systems and Interfacing, Probabilistic Methods

West Lafayette, IN

08/2020 - 05/2024

EXPERIENCE

Roadz

05/2023 - 08/2023

Software Engineer Intern | Python, Django, Bash, Docker, MySQL, Git/GitHub

Palo Alto, CA

- Utilized the Django framework to create an interactive full-stack application for Roadz subscribers.
- Effectively deployed the Roadz REST API to dynamically sort and present Roadz data, enhancing user interaction and efficiently optimizing data accessibility.
- Leveraged the Airtable API to integrate comprehensive data visualizations for Roadz users.
- Designed a user-friendly login page (HTML/CSS) protected by token authentication, ensuring reliable access to all of Roadz's internal databases and endpoints.
- Created exhaustive database unit tests in Pytest to thoroughly assess the sort and display functionalities on the back end of the stack.
- Application improved the satisfaction of fleet managers through its convenient interface, streamlined processes, and improved data analysis.

Purdue Solar Racing

01/2022 - 06/2023

Software Engineer (Telemetry Team) | Python, NumPy, Sklearn, pandas, Git/GitHub

West Lafayette, IN

- Skillfully employed Python regression models and advanced feature analysis using sklearn and NumPy to pinpoint the ideal operational speed for our car with respect to temperature, solar radiation, and moisture.
- Created a program that calibrated ideal racing speeds across various weather conditions with 93% accuracy.

Database and Innovative Software for the Community at Purdue

01/2021 - 05/2021

Software Developer | React.js, Java

West Lafayette, IN

- Designed a Mebengokre to Portuguese and English translator for the Kayapo Tribe using React/Expo. Functionalities of the application include a most recent words page, clear audio excerpts in all three languages, and enthusiastic visuals for each word.
- Programmed algorithms to asynchronously save and sort the most recently viewed words in Java.
- Strengthened trades and communication between the Kayapo Tribe and neighboring settlements.

PERSONAL PROJECTS

Smart Brain Face Detection | React.js, JavaScript, HTML, CSS, PostgreSQL, Git/Github

07/2022 - 09/2022

- Programmed a secure face recognition web app to detect a face from an image requested from the user.
- Utilized React components and class states to construct an interactive front-end. Features include easy navigation from the face detector to the sign-in page and displaying the number of faces the user has detected.
- Implemented PostgreSQL to create a reactive database that efficiently updates itself upon receiving data from user registrations.

Simple Shooter | C++, Unreal Engine

04/2022 - 08/2022

- Created an animated 3rd-person shooter game where the player aims to destroy all AI-controlled enemies before they hurt the player. The game includes responsive game mechanics, energetic sound effects, and a clear user interface.
- Applied C++ inheritance and memory management to efficiently program key classes in organized implementation/header files.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, JavaScript, TypeScript, Java, Bash, SQL, SystemVerilog, HTML/CSS

Frameworks/Technologies: Django, React.js, Node.js/Express.js, Bootstrap, NumPy

Tools: AWS, Git/GitHub, Linux/Unix, REST APIs, Postman, Docker