

Nafi Osmani

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Experience

Embedded Systems Engineer | [Company](#)
Illini Solar Car

Aug 2020 - Current

- Designed and built solar electric vehicle (sEV), Brizo, which drove across the United States traveling 986.6 mi along the Santa Fe Trail in the 2021 American Solar Challenge and 1497.9 mi along the Oregon Trail in the 2022 American Solar Challenge.
- Embedded programming of DSPs, microcontrollers, and programmable logic devices in C++
- Wrote embedded C++ for PCBs running Mbed OS on ARM Cortex-M-based processors.
- Utilized Git version control and the GitHub interface to work and thrive in a virtual and collaborative team environment.
- Ownership of electrical system: specification, architecture, schematic capture, PCB layout, board bring-up, board validation, system validation, and manufacturing (and test) for next generation (sEV), Project C.

Projects

ChatGPT Clone | [Website](#) | [GitHub](#)

- Implemented OpenAI API to use different ChatGPT models for own AI chat box.
- Implemented API endpoints in Next.js 13 app to securely manage requests.
- Connected Firebase v9 to create & store real-time chats with ChatGPT.
- Built fully responsive ChatGPT clone using **React, Typescript, HTML, and TailwindCSS** best practices.

DALL-E 2 Clone | [Website](#) | [GitHub](#)

- Set up & Deployed Microsoft Azure Functions to the cloud and upload/download images to & from Microsoft Azure Blob Storage securely
- Implemented DALL E 2.0 API to generate Art with input prompts and ChatGPT API to create suggestion prompts for AI Art
- Built cryptocurrency exchange platform using **React, Typescript, HTML, and TailwindCSS** best practices.

Twitter2.0 Clone | [Website](#) | [GitHub](#)

- Implemented Google Sign-in user authentication using NextAuth.js to display the user's name and profile picture on Tweets and comments.
- Implemented posting Tweets, commenting and liking functionality. Stored user-generated data in Firebase.
- Built fully responsive social media app using **React, Typescript, HTML, and TailwindCSS** best practices.

Education

Frontend Developer Bootcamp
Frontend Simplified

Jan 2023 – Mar 2023

University of Illinois at Urbana-Champaign
BS Electrical Engineering, Minor Computer Science

2023

Technical Skills

Languages: HTML5 | CSS3 (+ SCSS, BEM) | JavaScript ES6+ | Typescript
| TailwindCSS | C/C++ |

Frameworks: React (+ hooks) | Next.js | Material-UI | Redux |

Technology: NPM | Git | Yarn | React dev tools | Firebase v9 | GitHub