

## Summary

Full-Stack Software Engineer with strong skills in problem-solving, debugging, and systems thinking. Leveraging a background in architectural design and computational methods, I bring a creative yet analytical approach to software development. Experienced in building efficient, scalable, and user-centered applications across the stack using modern frameworks and cloud technologies. Known for sharp troubleshooting, adaptability, and a collaborative mindset, I thrive in agile environments and focus on delivering impactful solutions.

## Skills

|                              |  |
|------------------------------|--|
| <b>Frontend Development:</b> | Next.js, React, JavaScript, TypeScript, Redux, HTML, CSS, Tailwind CSS |
| <b>Backend Development:</b>  | Go, Node.js, Express.js, Python, Java, C++, TypeORM, REST API          |
| <b>Database:</b>             | MongoDB, MySQL, SQLite   |
| <b>Cloud &amp; Tools:</b>    | AWS S3, GitHub, Postman, Agile, Scrum, SDLC                            |
| <b>UI/UX Design:</b>         | Figma, Adobe Suite, Prototyping, User Research, Responsive Design      |

## Project Experience

Software Engineer (Self-Directed Projects)

### CoCraft – AI-Powered Home Design Platform

01/2025 - 07/2025

Next.js, React, TypeScript, Redux Toolkit, TailwindCSS, Go, MongoDB, AWS S3, OpenAI API, JWT, HTTP-only cookies

[Live Site](#) | [Frontend](#) | [Backend](#)

- Built a live social platform enabling homeowners, designers, and contractors can post, comment, follow and share their home projects.
- Integrated **OpenAI API** for AI-generated design visuals and **AWS S3** for secure image storage.
- Developed **role-based authentication** with HTTP-only cookies, personalized feeds, and advanced filtering/sorting.
- Designed a **responsive UI** with dark/light mode for consistent cross-device experiences.

### Hugzest – Smarter Shopping with AI

03/2024 - 12/2024

Node.js, React, TypeScript, Redux, CSS, Express.js, SQLite, TypeORM, OpenAI API, PayPal API, Google Maps API, JWT

[Live Site](#) | [Frontend](#) | [Backend](#)

- Developed a modern e-commerce application with advanced product filtering, persistent cart management, and secure **PayPal checkout**.
- Added address autocomplete with **Google Maps API** and persistent cart state across user sessions.
- Implemented AI-powered product recommendations using **OpenAI API** to enhance shopping experience.
- Designed interactive image galleries with real-time color swatch selections.

## Professional Experience

Computational Design & Architecture

### Technical Designer, Gensler, Seattle, WA

05/2019 - Present

- Developed **parametric design systems** using Rhino + Grasshopper and Revit + Dynamo to generate adaptive building forms, facades, and spatial configurations.
- Built custom scripts in Python and Dynamo to automate BIM workflows, reducing documentation time and increasing accuracy.
- Created data visualizations and simulation tools (Ladybug, ClimateStudio) to support design decisions using real-world environmental inputs.
- Collaborated cross-functionally with architects, engineers, and developers to deliver technically robust, visually compelling designs.

### Junior Designer, Fernando Romero Enterprise, New York, NY

08/2017 - 02/2019

- Produced computational design models and high-fidelity 3D visuals for large-scale architectural projects.
- Contributed to digital prototyping and design iteration using parametric tools and visualization platforms.

## Education

### Master of Architecture, University of Michigan, Ann Arbor

08/2015 - 04/2017

### Bachelor of Architecture, Xiamen University, China

09/2010 - 06/2015

### Additional Training, CS Coursework

07/2022 - 10/2023

Data Structures & Algorithms, UC Berkeley Extension

Completed 150+ LeetCode problems, with focus on algorithmic efficiency and problem-solving.