

CHENYANG (RAPHAEL) DU

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👤 [Portfolio](#)

🌐 [LinkedIn](#)

🐙 [Github](#)

Education

Santa Clara University, CA, USA

Master of Science in Computer Science

Sep 2023 – Spring 2025 (expected)

GPA 4.0/4

Duke University, NC, USA

Master of Science in Civil and Environmental Engineering

Sep 2021 – May 2023

GPA 3.81/4

Technical Skills

Languages: JavaScript, TypeScript, Java, C++, Python, HTML/CSS, SQL, GraphQL, R, Verilog

Frameworks: React, React Native, ThreeJS, ExpressJS, NextJS, RemixJS, Django, Flask, Springboot, PyTorch

Databases & Tools: Git, GitHub, AWS, GCP, Docker, Linux, MySQL, MongoDB, LaTeX, Figma, Postman, Cypress

Work Experience

Promaxo

Software Engineer Intern

Jun 2024 – Present

Oakland, CA

- Designed and built new features for an innovative medical imaging platform, ensuring high-quality, secure, and compliant patient data storage and communication.
- Collaborated with cross-functional teams (software, imaging, product, data science, and clinical) to gather requirements and implement features using **React**, **Node.js**, **Express**, **MongoDB**, and **GCP**.
- Developed unit tests, integration tests, and End2End tests (**Cypress**), increasing test coverage from scratch to **80%**, and delivered high-impact projects on time, leveraging strong problem-solving and debugging skills.

Lenovo

Software Engineer Intern

May 2024 – Present

Remote

- Developed a **3D interactive digital human application** using **React.js**, **Three.js**, and **Node.js**, integrating **Web Speech API** for real-time voice interaction and **Speech Synthesis API** for lifelike responses.
- Implemented a backend with **Express** for managing voice inputs and file uploads, utilizing a self-developed language model with advanced natural language processing capabilities, tailored for real-time conversational AI, significantly enhancing user experience and engagement.

Datatrixs

Software Engineer Intern

Mar 2024 – Jul 2024

San Francisco, CA

- Led a team to utilize **MERN stack** to build a full-stack application with a serverless architecture that empowers CPAs by automating their workflow with data visualization tools. Customized new features based on client requirements, resulting in a **40%** increase in client investment.
- Designed and implemented a **REST API** with Node.js and Express, achieving a **25%** improvement in response time and a **30%** reduction in server load. Reconstructed the database schema to add a tab feature, optimizing data structure and integration. Integrated **Redux** for advanced state management, and continuously improved site performance and user satisfaction.

Cooledtured Collections

Full Stack Web Developer Intern

Nov 2023 – Mar 2024

Burbank, CA

- Contributed to migrating Cooledtured's storefront from Shopify's front-end to a React-based custom headless e-commerce stack (**Shopify Hydrogen + Remix.js**), enhancing scalability, performance, and faster page load times.
- Collaborated with UI/UX and Web Dev teams to build the website using **React** with **TypeScript** and **Tailwind**, and implemented a robust **GraphQL-based** search engine with predictive search and product recommendations, resulting in increased session duration, user engagement, a **15%** boost in product discovery, and a **10%** rise in sales conversions.

Scale AI

AI trainer Contractor

May 2023 – Present

Remote

- Contributed to ChatGPT improvement project(codename: Ostrich) and code MultiTurn Deviation project(codename: Flamingo).
- Evaluating the quality of AI-generated code and writing robust test cases to confirm code works efficiently and effectively.

Projects

Personal Portfolio Website | 🐙

- Built a responsive and customizable portfolio website using **Next.js** with **Typescript** and **Tailwind**, deployed through Vercel.

Restaurant Management System | 🐙

- Architected and implemented **REST API** using **Django REST Framework** for menu-item management, cart operations, and order processing, ensuring data consistency with **MySQL** integration, and incorporating authentication, search functionality, pagination, and API throttling; utilized **Postman** for testing and debugging.