

## Education

### Santa Clara University, CA, USA

Master of Science in Computer Science

Sep 2023 – Jun 2025

GPA 4.0/4

### Duke University, NC, USA

Master of Science in Risk Engineering

Sep 2021 – May 2023

GPA 3.81/4

## Work Experience

### Promaxo

Jun 2024 – Mar 2025

Software Engineer Intern/Coop

Oakland, CA

- Collaborated with **Cross-functional teams** (software, imaging, product, data science, and clinical) to gather requirements and make sure the development process is on track. Implemented features using **React, Node.js, Express, MongoDB, and GCP**.
- Designed and built key features for innovative medical imaging platform and case management system which reduced image processing time and improved the efficiency of managing patient information by **25%**.
- Implemented a **hybrid validation system** for DICOM and report uploads using frontend checks, backend Signed URLs, and Cloud Functions, ensuring **HIPAA-compliant** storage via Google Cloud Healthcare and reducing invalid uploads by **40%**.
- Developed and deployed **Python**-based AWS Lambda functions to automate DICOM image processing and integrate machine learning models into the web application, enabling real-time healthcare data analysis.
- Developed a scalable, full-spectrum testing framework, achieving **80%** test coverage across unit (**Jest**), integration (Jest with **Supertest** and **MSW**), and end-to-end tests (**Cypress**).
- Improved the **CI/CD** pipeline by integrating automated testing, npm audits, secret scans, and SonarCloud checks, reducing deployment time by **20%** and enhancing code quality.

### Lenovo

May 2024 – Dec 2024

Software Engineer Intern

Remote

- Developed an immersive **3D collaborative** workplace app using **Three.js** and **Socket.IO**, enabling real-time object manipulation (position, rotation, scaling) via integrated Drag and Transform controls on a shared canvas.
- Built a scalable **microservices** backend using **Node.js, Express, MongoDB, Redis, and Apache Kafka** for message queuing, enabling decoupled communication and fault-tolerant event handling. Optimized performance, reducing response time for key user actions (adding, dragging, resizing, deleting 3D objects and comments) by **25%**.
- Integrated **Prometheus** and **Grafana** for real-time system monitoring and observability, improving debugging efficiency and uptime awareness.

### Datatrixs

Mar 2024 – Jun 2024

Software Engineer Intern

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.
- Attend **investors' sync meetings**, improve site performance and user satisfaction based on client feedback, design and implement tab and AI chart generation feature, resulting in a **50%** increase in follow-on investment.
- Reconstruct the **MongoDB** schema and token-based authentication flow, optimizing data transmission and sharing, directly contributed to **2 new companies' investment**

### Cooledtured Collections

Nov 2023 – Mar 2024

Full Stack Web Developer Intern

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.
- 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.

## Projects

### FoodieGO(Food Ordering App) | 🐙

- Developed a cross platform food order delivery app using **Flutter, Firebase**, and Google Maps, implementing Bloc/Cubit for state management, real-time sync, authentication, push notifications, custom routing, and filtering for seamless user experience.

### Restaurant Management System | 🐙

- Implemented **REST API** using **Django REST Framework** for menu-item management, cart operations, and order processing. Ensured data consistency with **MySQL** integration, incorporating authentication, search functionality, pagination, and API throttling. Reduced foreign key usage to minimize table update contention and enhance database scalability.

### Library Management System | 🐙

- Built a scalable **REST API** using **Java Spring Boot, PostgreSQL**, and **Redis**, implementing JWT authentication, role-based access control, and WebSocket for real-time updates. Optimized database queries with **JPA/Hibernate** and **Redis caching**, and deployed the system on **AWS** with **Docker** and CI/CD pipelines for scalability.

## Technical Skills

**Languages:** JavaScript, TypeScript, Java, GoLang, Dart, Swift, Python, C/C++, C#, PHP, HTML/CSS, Ruby, SQL, Shell  
**Frameworks & Tools:** React, React Native, ThreeJS, NextJS, RemixJS, Flutter, Django, Flask, Spring/Springboot, Ruby on Rails, Redux, AWS, GCP, MySQL, MongoDB, PostgreSQL, Redis, Docker, Kubernetes, Figma, Jest, Cypress, Jira  
**Coursework:** Object Oriented Programming, Data Structure and Algorithms, Operating Systems, Distributed System, Computer Network, Computer Architecture, UI/UX Design, Web Development, Mobile Development, Database Systems, Performance Engineering, NLP, Deep Learning, Machine Learning, Linear Programming, Nonlinear Optimization, Query Optimization, Agile team