Dustin Duong

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EDUCATION

Santa Clara University — 09/2022 – Present

B.S. in Computer Science and Management Information Systems (Anticipated Completion: 6/2027)   Santa Clara, CA

- Related Coursework: Embedded Systems, C++ and OOP, Data Structures, Algorithm Theory, Computer Security, Programming Languages, Design and Management of Software, Operating Systems, Databases

EXPERIENCE

Stage 4 Solutions - Software Engineer Intern — 06/2025 – 9/2025

- Engineered **Chrome** extension with real-time **AI analysis** of LinkedIn content to achieve **200%** improvement in lead generation speed to 10+ leads/min
- Built data management system with client filtering, relationship tracking, and automated **CSV export** with personalized connection messages
- Authored extension documentation and **HubSpot** CRM automation workflow plans

REC Exchange - Software Engineer Intern — 04/2024 – 06/2024

- Conducted market research on Renewable Energy Certificates, identified customers and developed responsive landing page with **Next.js** and **MaterialUI**

TECHNICAL SKILLS

- **Languages**: Javascript/Typescript, Java, C++, Golang, SQL, HTML
- **Developer Tools**: Git, MySQL Workbench, NoSQL, PostgreSQL, Postman, Google Cloud, AWS, Next.js, Node.js, Express, React, Docker, Ollama, Ubuntu, Linux, Jira, n8n, JWT, Spring
- **Skills**: Problem solving, team collaboration, communication, detail-oriented, machine learning, user interface, Agile, Scrum, CI / CD, REST APIs, Microservices, Cloud Computing, Backend, Frontend, Frontend, Backend, System Design, Debugging, Testing, Code Review, Software Development Lifecycle

PROJECTS

[Regulations.gov Desktop App (Hack4Humanity and Hacktivism)](#) — 08/2025 – Present

- Built desktop app enabling users to search, track, and discover government documents with personalized recommendations and sentiment analysis, refined through feedback from activists and government teacher
- Ensured 100% data privacy with local processing using **Tauri** (**Rust** + **React/TypeScript**) and **Ollama** inference
- Developed **Docker**-containerized workflow with **N8N** and **regulations.gov APIs** to fetch **1000+** documents weekly into **Supabase**
- Implemented local **RAG** system with **Express.js**, **SQLite**, and **Qdrant** for document chunking and user-profile matching, displaying matches with thumbnails generated by **Gemini**
- Engineered force-directed graph matching algorithm achieving **95%** accuracy by modeling documents and user interests as nodes with semantic similarity scores as attractive forces

[SCU Schedule Helper: Chrome Extension for Workday Course Registration](#) — 08/2024 – Present

- Built Chrome extension with **400+** active users, executing full **SDLC** including **Figma** prototypes, **UML** diagrams, user interviews, user tests, and Chrome Web Store deployment
- Scraped and aggregated data from **60,000+** SCU course evaluation PDFs and RateMyProfessor to provide comprehensive instructor insights
- Developed professor/course rating search page, preference settings, friend network, **Google Calendar** export, **Workday** registration page injection with ratings and **Next.js** interface
- Built **RESTful API** with **CRUD** operations using **AWS Lambda** functions for backend data management
- Increased adoption by **50%** through automated newsletters using **N8N** and **AWS SES** and campus posters

[Distributed Agent Communication System](#) — 06/2025 – 07/2025

- Engineered concurrent **UDP** server in **Go** handling real-time agent docking and peer-to-peer invitation routing with **JWT**-based authentication and **RSA** public key verification
- Implemented thread-safe agent management using mutex-protected data structures to coordinate invitation delivery
- Designed sequence-based message ordering and time-expiration logic to prevent stale connections and limit invitation

CERTIFICATES

Meta Back-End Developer Certificate | *Python, Github, Django, Bootstrap, Rest API* — 09/2023 – 02/2024

- Completed 6 courses with 95% average score across **30+** labs and modules on APIs, Django, version control, Python, and databases

ORGANIZATIONS AND LEADERSHIP

Theta Tau (Professional Engineering Fraternity) — 03/2024 – Present

Professional Development Chair — *03/2024 – 03/2025*

- Led 5-person committee to organize quarterly workshops on soft skills reaching **100+** total attendance
- Volunteered with Engineering Outreach committee to host quarterly STEM and coding workshops for elementary and middle school students reaching **150+** total attendance