Dustin Duong

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Summary: Committed and innovative third-year student at Santa Clara University pursuing a B.S. in computer science with an emphasis in software engineering. With experience in front-end, back-end, cloud technologies, LLMs, and working in diverse teams, I am excited to apply these skills to software related positions.

EDUCATION

Santa Clara University 09/2022 – Present
B.S. in Computer Science, Minor in MIS (Anticipated Graduation: 3/2026) *Santa Clara, CA*
- Related Coursework: Embedded Systems, C++ and OOP, Data Structures, Discrete Mathematics, Math 12-14, Probability and Statistics I, Theory of Algorithms, Linear Algebra, Computer Security, Design and Management of Software, Programming Languages
- Current GPA: 3.7

EXPERIENCE

REC Exchange - Part Timer | *Excel, Javascript, Next.js* 04/2024 – 06/2024
- Conducted market research, organizing findings into five comprehensive Excel spreadsheets
- Reviewed and contributed documentation on RECs and researched local distributors and buyers
- Contributed a landing page with authorization and persistent authentication

TECHNICAL SKILLS

Languages: Python, C++, Java, Javascript, Typescript, HTML/CSS, MySQL, Assembly
Frameworks: Spring, Springboot, React.js, Django Web, Django Rest
Developer Tools: Git, Virtual Box Machine, MySQL Workbench, Postman, Google Cloud, AWS, Firebase, Next.js, Node.js, Figma, Slack, MongoDB, Azure, Docker, Kubernetes
Skills: Front-End, Back-End, Web development, Amazon web services, object-oriented design, data structures, UI/UX design, problem solving, communication skills, web applications, Software Development Lifecycle, agile, troubleshooting

PROJECTS

Digitized Mentor Platform - Hack for Humanity 2025 | *Next.js, OpenAI, Ollama, RAG* 02/2024 – Present
- Engineering platform where users can interact with digital representations of professionals for guidance
- Developed interactive proof of concept within 24 hour time-frame
- Leveraging **Mediastream API** and **ChatGPT-o4** to vectorize work experience recordings to career data
- Deploying **Ollama 3.1** augmented with **RAG** and **Langchain** to enable intelligent dynamic response generation

Workday Extension - SCU Schedule Helper | *Next.js, AWS Services, Chrome DevTools* 09/2024 – Present
- Spearheaded frontend development of SCU course registration **Chrome** extension, helping **500+** users
- Engineered **Workday** injection scripts, **Next.js** popup interface, friend network, and AI advisor functionality
- Designed and executed automated data pipeline extracting **30+** SCU Bulletin Board pages into vector database, enabling real-time AI course recommendations
- Optimized **OpenAI Assistant API** implementation through advanced prompting techniques (**chain of thought**, **role assignment**), achieving enhanced response accuracy and personalized academic guidance
- Practiced software development life-cycle, from ideation to deployment, including **10+** pages of user and system requirements, **Figma** screens, implementation plan, **UML** (Class, Database, Activity Diagrams), and user testing

Viginere Cypher Webevent | *React, Next.js, MUI, Javascript, Firebase, Google Cloud* 08/2024 – 09/2024
- Coded interactive viginere cypher webevent with **Next.js** attracting 10+ users
- Implemented **Google** authentication system, data retrieval system, and data publish system with **Firebase**

Sentiment Analyzer | *Next.js, AWS Comprehend, AWS Lambda* 10/2024 – 10/2024
- Engineered a real-time sentiment analysis platform processing audio recordings through **AWS Comprehend**
- Architected backend using **AWS Lambda and API Gateway**

Probability Simulator - Hack for Humanity 2024 | *Unity, C#, Github* 02/2024 – 02/2024
- Developed interactive app that simplifies statistics with coin flips and die roll animations
- Completed development within 24-hour hackathon timeframe, achieving 80+ demo views in first week

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
- Practiced APIs, Django Web Framework, version control, programming in python, and databases

ORGANIZATIONS AND LEADERSHIP

Theta Tau - Professional Engineering Fraternity 03/2024 – Present
Professional Development Chair *Santa Clara, CA*
- Led 5-person committee organizing 3 successful technical skills, soft skills, and career related workshops
- Increased workshop attendance by 30%, achieving 100+ total attendance