

# Isaac Nguyen

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## EDUCATION

### University of California, Irvine

GPA: 4.0

*Bachelor of Science in Computer Science*

*Expected Graduation: June 2026*

- Relevant Courses: Data Structures and Algorithms, Operating Systems, Computer Architecture, Probability and Statistics for Computer Science, Discrete Math, Linear Algebra

## EXPERIENCE

### Software Development Engineer

November 2024 – Present

*ICS Student Council Projects Committee*

*Irvine, CA*

- Contributed to **open source** UCI schedule planner named AntAlmanac serving **8,000+** monthly users
- Led team of **6 developers** to create automated email notification system that leveraged tRPC procedures, Drizzle ORM, and **Amazon Web Services** (Amazon Cloudwatch Events, AWS Lambda Function, and Amazon SES)
- Collaborated in the CI/CD pipeline to ensure seamless deployments and participated in peer code reviews
- Deployed PostgreSQL database locally using **Docker** for development and testing purposes

### Full-Stack Developer

October 2024 – Present

*Commit the Change*

*Irvine, CA*

- Produced end-to-end case management tool to improve efficiency of aiding **7,000+** homeless women/children for nonprofit organization called Colette's Children Home, collaborating with team of **16 developers**
- Collaborated with cross-functional teams in weekly **Agile sprints** in Scrum environment to deliver incremental product updates, ensuring alignment with stakeholders and project goals
- Designed SQL tables to store display client information, developing CRUD backend endpoints for robust filtering and insertion to efficiently handle data management, resulting in saving **10+** hours per week

### Undergraduate Student Researcher

October 2024 – Present

*Digital Learning Lab*

*Irvine, CA*

- Leveraged RAG and other machine learning fine-tuning processes using **Python** on Papyrus AI, an instructional LLM used to improve the literacy and writing for K-12 students through individual feedback via **GPT-4's** API

### Software Engineering Intern

July 2024 – February 2025

*Atoma Media*

*Remote*

- Shipped **20+ features** for a finance startup that uses AI to gather information about financial articles
- Spearheaded development of a search history feature utilizing Prisma ORM to communicate with an Express.js backend and PostgreSQL database, displaying via a shadcn, React, and Next.js frontend
- Accomplished **50% increase** in article scraping reliability by refactoring web scraping JavaScript script
- Implemented subscription payment functionality by setting up **10+** backend endpoints integrated with Stripe API

## PROJECTS

### Faster Fashion | *Flask, JavaScript, Python, PostgreSQL, HTML/CSS, Google Cloud*

January 2024

- Won **1st place** at IrvineHacks 2024 (**340+ participants**) with team of 3 in Google Cloud API category
- Developed Python algorithm to compare clothing in web scraped database of **1000+** articles of clothing
- Implemented Google **Cloud Vision AI** into full-stack application that detects articles of clothing in inputted images and suggests similar pieces of clothing found in online stores like H&M

### Moove | *React, Node.js, Express.js, Firebase, RESTful API*

May 2024

- Won **1st place** at VenusHacks 2024 (**170+ participants**) with team of 4 in Melissa API/Data Sets
- Constructed **FERN stack** application helping college students move out via property ownership verification
- Implemented storage and retrieval of property verification keys via Firebase and RESTful API, allowing for seamless data retrieval and ensuring scalability as user demand grows

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, C, C++, C#, HTML/CSS, Java, SQL, R

**Frameworks/Libraries:** React, Node.js, Express.js, Next.js, Flask, PyTorch, NumPy, Pandas, shadcn, Bootstrap

**Developer Tools:** Git, VS Code, Bash, Eclipse, AWS, Firebase, pgAdmin, PostgreSQL, Docker, Linux, Figma