Isaac Nguyen

310-707-7440 | isaachugh33@gmail.com | linkedin.com/in/isaacnguyen33 | github.com/IsaacNguyen | Irvine, CA

EDUCATION

University of California, Irvine (UCI) Irvine, CA
Bachelor of Science in Computer Science *Expected Graduation: June 2027*
- GPA: 4.0 / PBK Book Award Recipient (**Top 0.5%** of class)
- Relevant Courses: Data Structures and Algorithms, Operating Systems, Computer Architecture, Intro to Artificial Intelligence, C++ and Python Programming Series, Information Retrieval, Discrete Math, Linear Algebra

EXPERIENCE

Amazon Web Services (AWS) June 2025 – Sept. 2025
Software Development Engineer Intern – Amazon SageMaker *East Palo Alto, CA*
- Refactored **48+** React components by migrating from Blueprint.js to internal component framework and simplifying code logic, reducing codebase by **20,000+** lines of code and dropping the INP by **500-700ms** into the green zone
- Identified and resolved critical issues in a non-functional **Playwright E2E testing suite**, writing **8+** comprehensive E2E tests and refactoring code to enable successful reintegration into the **CI/CD pipeline**
- Spearheaded migration of the codebase from JavaScript to TypeScript while introducing **27 Vitest** unit testing suites, achieving ~**92%** test coverage per file, ensuring code maintainability, and enhancing developer workflow

ICS Student Council Projects Committee Nov. 2024 – Present
Software Engineer *Irvine, CA*
- Developed an **open source** UCI schedule planner named AntAlmanac serving **8,000+** monthly users
- Led a team of **6 developers** to create an automated email notification system leveraging tRPC procedures, Drizzle ORM, and **Amazon Web Services** (CloudWatch Events, RDS, Lambda Function, and AWS SES)
- Collaborated with cross-functional teams in weekly **Agile Scrum sprints**, working closely with UX designers and product managers to ensure alignment with customers and project goals

Commit the Change Oct. 2024 – Present
Full-Stack Developer *Irvine, CA*
- Produced an internal case management tool to improve efficiency of aiding **7,000+** homeless women/children for a nonprofit called Colette's Children Home, collaborating with a team of **16 developers**
- Engineered **two-factor authentication (2FA)** using Firebase and Express.js along with a Nodemailer notification email system, ensuring the protection of sensitive client data and allowing for secure logins
- Designed SQL tables, CRUD backend endpoints, and a custom React filtration component for a ChakraUI table to enable robust management of client data, saving the Colette's Children Home's staff **4+ hours** per week

Atoma July 2024 – Feb. 2025
Software Engineering Intern *Remote*
- Shipped **20+ features** for a finance startup that uses AI to gather information about financial articles
- Spearheaded the 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

PROJECTS

Faster Fashion ⧉ | *Flask, JavaScript, Python, PostgreSQL, HTML/CSS, Google Cloud* Jan. 2024
- Won **1st place** at IrvineHacks 2024 (**340+ participants**) with a team of 3 in Google Cloud API category
- Developed a Python algorithm to compare clothing in a web scraped database of **1000+** articles of clothing
- Implemented Google **Cloud Vision AI** into a 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 a team of 4 in Melissa API/Data Sets
- Constructed a **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

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C, C++, HTML/CSS, Java, SQL, R
Frameworks/Libraries: React, Next.js, Node.js, Express.js, PyTorch, NumPy, Vitest, Playwright, Chakra UI, MUI
Developer Tools: Git, VS Code, AWS, Bash, pgAdmin, Docker, Linux, Figma, AWS RDS, PostgreSQL, Firebase