

Yiyang (Selina) Xue

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Summary

Computer science student with experience designing and integrating software systems and automation workflows. Strong foundation in full-stack development and stakeholder collaboration, translating technical requirements into scalable solutions in client-facing environments.

Education

University of California, Irvine — B.S. in Computer Science (Expected Spring 2027)

Skills

- **Core Engineering:** C++, C#, Python, JavaScript, Node.js, Flask, Next.js, PostgreSQL
- **Systems & Integration:** RESTful APIs, Workflow Automation, Zapier, Mailchimp, Imgix, OAuth, SMTP, Hosting Configuration
- **Solution Architecture:** Requirement Decomposition, System Architecture Planning, User & Data Flow Design, Scalable Automation Design

Experience

Technical Solutions Developer

Jan 2026 — Present

Gaspere Foundation (Newport Beach, CA — Hybrid)

Humanitarian nonprofit supporting vulnerable communities through outreach and advocacy initiatives

- Led website customization and structured content architecture based on stakeholder requirements.
- Configured hosting environments and optimized content workflows for scalability.
- Provided ongoing system enhancements aligned with organizational needs.

Solutions Architect

May 2025 — Present

Our Clean Oceans (Newport Beach, CA — Hybrid)

Environmental nonprofit focused on protecting and preserving California's waterways

<https://www.ourcleanoceans.org/>

- Executed full website migration and architecture redesign to improve membership growth and user flows.
- Designed automated onboarding and referral tracking workflows using Zapier, Mailchimp, and Google Sheets integrations.
- Built tiered ambassador referral logic with automated trigger-based email campaigns and milestone rewards.
- Integrated Imgix to dynamically generate personalized digital badges upon registration.
- Replaced manual administrative coordination with automated status tracking and notification routing, centralizing data into real-time pipeline dashboards for leadership visibility and self-serve record retrieval.

Product Systems Developer

Jun 2024 — Present

The Gaia Project (Remote)

Organization supporting women entrepreneurs through digital resources and community initiatives

<https://www.tgpthegaiaproject.com/>

- Led end-to-end website development as sole developer, translating founder requirements into platform features.
- Designed and implemented responsive web architecture using Node.js, HTML, CSS, and Bootstrap.
- Collaborated with leadership to align technical execution with growth strategy.

Independent Full-Stack Developer

Pomodoro Pulse – Productivity Platform

- Designed and built an end-to-end productivity web platform using Flask, defining system architecture, access control flow, and database schema.
- Engineered secure PostgreSQL data models to support user session tracking and performance analytics.
- Implemented OAuth-based authentication and automated email notification workflows to enhance user engagement.
- Structured frontend interaction flows to optimize usability and retention.

Languages

English — Professional Proficiency

Mandarin Chinese — Native