

RILEY WONG

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EDUCATION

Santa Clara University, Santa Clara, CA

B.S. Computer Science, May 2026

Activities: Association for Computing Machinery, Math/CS Society, Asian Pacific-Islander Student Union.

Courses: Data Structures, Advanced Programming, OOP and Memory Management, Linear Algebra.

Major GPA: 3.95; **Overall GPA:** 3.97.

EXPERIENCE

Student Developer

Google Summer of Code, IfcOpenShell, Remote

May 2023 - Present

- Overhaul RDF-graph smart building management authoring tool in BlenderBIM (Blender CAD plugin).
- Integrate IFC and BrickSchema semantics to enrich standard exchange of building information models.
- Train in open-source design, collaboration, and project management to bring updates to large software organizations.

Webmaster

SCU's ACM Chapter (Tech Club), Santa Clara, CA

Apr 2023 - Present

- Update, manage, and expand ACM's websites, cloud content database, and GitHub workspaces.
- Work with team of 14 to engage student body professionally and communally through productive events.

Aquaponics Project Intern

Golestan Education, El Cerrito, CA

Jun 2021 - Sep 2022

- Operated closed-loop aquaponics sustaining fish, bacteria, and plant life balances to grow student lunches.

PROJECTS

Gourm.ai - (Node.js, React.js, OpenAI API, GPT-4) - Team of 4

- Prompted GPT-4 in context of user-specified recipes and questions to streamline the cooking experience.
- Built user-friendly and adaptable frontend in React to accept dynamic recipe sizes and specifications.

Nest Notifications - (Flask, Flutter, SQL, INRIX API, Twilio) - Team of 5, INRIX Hack: 4th Place

- Monitored drive-time polygons to develop full-stack geo-tracking mobile app for safety of adolescents.
- Developed custom Flask REST API to parse street and map data for client Flutter frontend and send SMS alerts.

Hands for Help - (Flask, Flutter, HiveDB, Google Services) - Team of 6

- Designed internet-independent resource tracking/sharing mobile app for people experiencing homelessness.
- Located highest-rated events and shared data app-to-app by QR code needless of cell service.

Logistic Map Random Number Generator - (Python, Scipy) - ACM Summer 2022: Best Use of Theory

- Used logistic map's chaotic region as entropy to devise method for intrinsic random number generation.
- Appraised 2 generators with chi-square, correlation, and random walk statistical tests with partner.

Blender 3D: Screen To ASCII Art Addon - (Python, Blender API) - ACM Winter 2023: 1st Place

- Integrated UI panels, offscreen rendering, and texture drawing to extend suite of creative features.

SKILLS

Programming: Python, C++, JavaScript, Git, HTML/CSS, SQL, RDF SPARQL, Flask, Vue.js, Pandas, Scipy, Regex.

Additional: Spanish (Conversational), Japanese (Elementary), 3D Modeling, Microsoft Suite, Notion.