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RILEY WONG

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online portfolio

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.

Major GPA: 3.93; Overall GPA: 3.95.

EXPERIENCE

Student Developer

Google Summer of Code, IfcOpenShell, Remote

May 2023 - Present

- Overhaul RDF-semantic smart building authoring tool in BlenderBIM (Blender CAD plugin).
- Integrate IfcOpenShell and BrickSchema packages to enrich exchange of building information.

Webmaster

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

Apr 2023 - Present

- Update, manage, and expand ACM's websites, content database, and GitHub workspaces.

Aquaponics Project Intern

Golestan Education, El Cerrito, CA

Jun 2021 - Sep 2022

- Operated closed-loop aquaponics sustaining fish, bacteria, and plant balances.

PROJECTS

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

- Developed full-stack geo-tracking mobile app for safety of adolescents.
- Fetched street data and map services with Flask as REST API to parse for Flutter frontend.

Hands for Help - *(Flask, Flutter, SQL) - Team of 6*

- Designed internet-free resource tracking/sharing mobile app for people in 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*

- Devised intrinsic random number gen. method with logistic map's chaotic region as entropy.
- Coded 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, 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.