

Jude Raphael Gamba

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EDUCATION

University of California, San Diego

La Jolla, CA

Bachelor of Arts in Computer Science

Sep 2023 – Present

Relevant Coursework: Data Science Principles, Probability and Statistics, Data Structures & Object-Oriented Design, Systems Programming, Discrete Mathematics

Interests and Student Organizations: Passionate about innovative technical solutions tailored to user populations. Member of **TARS** (Triton Astronautics Research Systems) avionics team and **UCSD Dragon Boat team**.

EXPERIENCE

Web Development Intern

Sep. 2024 – Oct. 2025

City of San Diego

San Diego, CA

- Optimized and updated web pages across **40+** city departments using **Drupal CMS**, supporting a public-facing site spanning **thousands** of pages.
- Authored comprehensive developer onboarding documentation for local environment setup using **WSL**, **Docker**, and **DDEV**, reducing ramp-up time for new team members.
- Conducted a **WCAG 2.1** accessibility audit of the city website as part of a national government initiative, identifying and flagging compliance gaps.
- Contributed to a large-scale asset migration for the Parks and Recreation website, coordinating content transfer and quality review.

Student Intern

Jun. 2024 – Sep. 2024

City of San Diego

San Diego, CA

- Partnered with a **7-person cross-departmental data team** to design solutions leveraging structured data collection and analysis, improving operational efficiency across city departments.
- Delivered **weekly presentations** translating complex analytical findings into clear narratives for both technical staff and non-technical department leadership.
- Recognized by team leadership for strong **communication**, **collaboration**, and **analytical initiative** throughout the internship.

PROJECTS

TritonLiving | *Next.js, TypeScript, PostgreSQL, Prisma, NextAuth, Vercel, Supabase*

April 2026 - July 2026

- Built a **full-stack** roommate discovery platform for UCSD students using Next.js, Prisma, and PostgreSQL, modeling user profiles, housing/lifestyle preferences, saved candidates, and messages in a **relational schema**.
- Implemented a **weighted compatibility engine** ranking candidates across **20+ categories** (budget, location, social habits, etc.) with user-controlled priority weighting and explainable match reasons.
- Integrated **OpenAI API** to generate per-user lifestyle summaries and **per-pair** match explanations, persisted in PostgreSQL and regenerated when preferences change.
- Built one-on-one messaging with **Prisma-backed** conversation persistence, deduplicated per user pair, and kept live via **database polling**.

Carden – Puzzle Card Game | *HTML, CSS, JavaScript*

March 2025 - June 2025

- Designed and built an interactive, fully browser-based card puzzle game with emphasis on intuitive UI layout and smooth CSS animations for an engaging player experience.
- Followed **Agile development practices** – planning iterative sprints and incorporating feedback – to progressively improve game responsiveness and flow.
- Applied player interaction observations and user feedback to refine game mechanics and inform design decisions throughout development.

TECHNICAL SKILLS

Languages: Python (proficient), Java (proficient), C/C++, JavaScript, HTML/CSS, SQL

Libraries & Tools: Pandas, NumPy, Git, VS Code, Jupyter Notebook, Drupal, Excel

Core Competencies: Web Development, Prompt Engineering, Data Analysis, Statistical Modeling, Data Visualization, System Design, Communication, Collaboration