

RICHARD GABEL

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EDUCATION

University of California, San Diego

Graduating 2026

Bachelor of Science in Computer Engineering - Major GPA - 3.95/4.0

La Jolla, CA

Relevant Coursework: Operating Systems, Digital Systems Design, Algorithm Design, Software Engineering

Honors: Dean's List every quarter, Tau Beta Pi Honor Society (TBP), Eta Kappa Nu Honor Society (HKN)

University of California, San Diego

2026 – 2027

Master of Science in Computer Engineering

La Jolla, CA

PROJECTS

Portfolio | Full Stack, JavaScript, HTML, CSS, AWS

January 2025 – Current

- Built a full stack personal portfolio website to showcase projects.
- Implemented AWS for reliable website hosting and form handling.
- Designed responsive and interactive UI elements using HTML and CSS.
- Integrated JavaScript to enhance user experience and functionality.

Study Buddy | Gemini API, FastAPI, React, MongoDB, NodeJS, Auth0

April 2025 – Current

- Developed a hackathon project called Study Buddy, a study tool designed to make studying engaging.
- Utilized the Gemini API to generate multiple-choice questions (MCQs) and flashcards from uploaded PDF content stored in a MongoDB database.
- Built the backend using Python and FastAPI to handle API integration and Auth0 for login management.
- Designed the frontend with React, NodeJS, JavaScript for an interactive and user-friendly interface.

The Way Back Home | Unity, C#, Git

June 2025 – Current

- Spearheaded the development of an action, story-telling game using Unity, selected by ACM to develop it.
- Engineered core gameplay systems, including player abilities, enemy AI behaviors, and interactive level mechanics, enhancing player engagement.
- Implemented robust scripting solutions in C# for dynamic object interactions, UI elements, and game state management.
- Collaborated with a cross-functional team to translate design visions into functional game features, ensuring seamless integration and performance.

EXPERIENCE

Outlier

May 2024 – Current

Coding Expert for AI Training

Remote

- Reviewed over 1000 AI-generated code blocks for accuracy.
- Tested and debugged AI-generated code improving efficiency by 15%.
- Provided feedback to improve AI responses improving accuracy by 30% on average.
- Developed and maintained documentation for AI response validation processes and guidelines.

Research Seminar on Hardware Security

January 2025 – Current

Research Assistant

La Jolla, CA

- Participated in weekly seminars discussing advanced topics in hardware security.
- Reviewed and fact-checked 20+ new research findings.
- Provided feedback and suggestions on at least 10 final research papers.
- Explored new AI technologies to detect malicious hardware components in circuits with over 60% accuracy.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, JavaScript, Bash, XML, SystemVerilog

Developer Tools: Vim, GitHub, Git, HTML, CSS

Technologies/Frameworks: Linux, NumPy, MongoDB, ExpressJS, ReactJS, NodeJS, AWS

Clubs: Association for Computing Machinery (ACM), Women in Computing (WIC), Institute of Electrical and Electronics Engineers (IEEE), Tau Beta Pi (TBP), Eta Kappa Nu (HKN)