Ryan Lov

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Education

California State Polytechnic University, Pomona   **Graduated:** May 2025

B.S. in Computer Science | **GPA:** 3.78

Mathematics Minor | **GPA:** 3.32

Relative Coursework: Software Engineering, Mobile App Development, Game Development, Object-Oriented Programming, Design and Analysis of Algorithms, Data Structures and Advanced Algorithms, Concept of Programming Language, Operating Systems, Numerical Methods, Database Systems, Formal Languages and Automata, Linear Algebra Applications to Differential Equations, Mathematical Proofs, Abstract Algebra, Number Theory

Selected Projects

Self-Project   May 2025 - Present

Full-Stack Blog Application Project   Pomona, CA

- Engineered a **production-ready blog platform** using React.js (Frontend), FastAPI (Backend), and PostgreSQL, with full **Docker containerization** for seamless deployment.
- Developed a responsive UI with TailwindCSS and implemented RESTful APIs using FastAPI, Pydantic, and SQLAlchemy for robust backend functionality.
- Established efficient frontend-backend communication using **Axios** for data fetching and state management.

Self-Project   September 2023 – February 2024

Pokedex & PokeTCG React Project   Pomona, CA

- Developed a full-stack web application using **React (Vite)**, **TailwindCSS**, and **FastAPI** to browse, search, and explore Pokémon and Pokémon TCG card data.
- Integrated with **external APIs** (PokéAPI, Pokémon TCG API) to display detailed Pokémon stats, abilities, evolution chains, and trading cards.
- Built responsive, mobile-friendly UI with advanced features such as skeleton loading, paginated browsing, and dynamic search.

Software Engineer Course Project   August 2024 – December 2024

Fridge Scanner and Recipe Generator Application   Pomona, CA

- Designed an interactive user interface using **Typescript** to provide a meaningful experience allowing users to scan fridge items, receive recipe suggestions focusing on ease of daily use.
- Collaborated with back-end and machine learning teams to ensure smooth **data flow between object detection models and the front end**.
- Focused on **responsive design and accessibility** to improve user interaction across different devices.

Technical Skills And Certifications

Programming: Javascript, Python, Java, HTML, CSS

Frameworks & Libraries: React, Material-UI, TailwindCSS, Bootstrap, Vue.js, FastAPI, Pydantic, SQLAlchemy

Project Management: Github, Kanban Board, Agile

Certifications:

Programming with Javascript – Meta, Cousera   August 2023

Introduction to Front-End Development – Meta, Cousera   August 2023