

# Ryan Vo

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## EDUCATION

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### California Polytechnic State University, San Luis Obispo (Cal Poly)

*Bachelor of Science Degree in Computer Science*

Sep. 2022 - June 2026

GPA: 3.60

**Courses:** Data Structures & Algorithms, Object-Oriented Programming, Systems Programming

## TECHNICAL SKILLS

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**Languages:** Python, Javascript, Java, C, HTML/CSS

**Frameworks/Libraries:** Node.js, React, Fastify, Express, MongoDB

**Tools:** Unix, Git

## PROJECTS

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### steamNgin | Javascript, React, Fastify, MongoDB

July 2024

- Developed a full-stack web application using **React**, **Node.js**, and **MongoDB** to track and display real-time player counts for Steam games, handling data for over 100,000 games
- Integrated with Steam's Web API to fetch and update player counts at 20-minute intervals using Node.js scheduling
- Implemented RESTful API endpoints using **Fastify** to efficiently handle data retrieval
- Link: <https://www.steamng.in>

### CORGIS Project Data Analysis | C

February 2024

- Developed a **C** program to parse and analyze US county demographics data for all 3,142 US counties
- Implemented SQL-like operations to select and filter counties
- Optimized memory usage through efficient dynamic allocation, allowing the program to handle datasets with minimal performance degradation

### Huffman Coding | Python

May 2023

- Implemented the Huffman algorithm for lossless data compression using a binary tree and linked lists
- Achieved an average compression ratio of 1.8:1 on text files, reducing storage requirements by 45%

### JustConnect | HTML, CSS

March 2023

- Built the front-end of a website connecting social justice activists with upcoming activities
- Collaborated with UX/UI designer to implement a user-friendly interface

## WORK EXPERIENCE

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### Software Engineering Intern

June 2021 - August 2021

ChipBrain, San Diego, CA (16 hours/week)

- Assisted in creating a Gmail extension that automated drafts of emails to be sent
- Utilized Google's Gmail API to securely access, read, and write email drafts
- Implemented Jira into workflow to track to-do list and improve team communication