

# Jesus Gonzalez

Software Engineer

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## TECHNICAL SKILLS

**Languages and Tools:** Python, JavaScript, HTML, CSS, C/C++, Java, Databases (SQL/MySQL/Postgres), AWS, Node.js  
**Developer Tools:** Git, Github, Docker  
**Frameworks and Libraries:** React, Next.js, Pytorch, Tensorflow, NumPy, Pygame, Pandas, matplotlib

## EDUCATION

**University of California San Diego**  
*Bachelor of Science, Computer Science*

Graduation June 2026  
**GPA: 3.568**

## EXPERIENCE

### Software Engineer Intern

Sep. 2024 - Present

*DegreeCat (Startup) | Agile, Figma, Python, Beautiful Soup, JavaScript, React*

*Remote*

- Led the **back-end development** of an EdTech platform, contributing to key architectural and design decisions to ensure scalability and efficiency.
- Collaborate with the leadership and design team to create a seamless user experience, ensuring the product meets **high-quality standards**.
- Developed and implemented **object-oriented programming solutions** to enhance platform functionality and performance.
- Contributed to the platform's **full lifecycle**, from conceptualization to launch, ensuring alignment with the company's long-term vision.

### Senior Software Engineer Mentorship

Jun. 2024 - Present

*Spotify*

*Remote*

- Conduct weekly meetings with senior software engineer to discuss advanced software development techniques and **industry best practices**.
- Participate in practice **coding sessions** to enhance problem-solving skills, code quality, and communication.

## PROJECTS

### Dev Journal (CRUD) | Agile, Figma, JavaScript, GitHub, Puppeteer, Jest, Git, GitHub

Apr. 2024 - Jun. 2024

- Led Agile workflow** with a team of 11: utilized Git for version control across ten successful week-long sprints, managed story points, prioritized features, and implemented CI/CD pipelines; resulting in a **20% increase** in development efficiency
- Implemented automated tests using Jest and Puppeteer, enhancing code reliability and **reducing bugs by 30%**.
- Developed a front end journal application, using HTML, CSS, and JavaScript to create a visually appealing and user-friendly interface.

### My Calorie Log | REST API, Next.js, TypeScript, React, MySQL, Bootstrap

Jul. 2024

- Developed a TypeScript-based Next.js application that tracks daily caloric intake, featuring comprehensive logging, searching, and displaying of food items.
- Integrated a **REST API** to manage food item data, enabling efficient communication between client and server and reducing data retrieval time by **25%**, improving application responsiveness.
- Implemented MySQL for efficient server-side data storage, ensuring reliable and scalable management of food item data.

### Book Recommender System | Python, Flask, PyTorch, Next.js, TypeScript

Aug. 2024

- Developed a Flask API with a PyTorch model that recommends books based on cosine similarity between user ratings and pre-trained book embeddings.
- Implemented a Next.js frontend in TypeScript, allowing users to submit ratings and receive real-time book recommendations.
- Processed and analyzed over 6 million book ratings, optimizing recommendation efficiency through effective model integration and storage techniques.
- Achieved a significant reduction in Root Mean Squared Error (RMSE) from 0.65 to 0.28 by **hyperparameter tuning**, improving the precision of book recommendations and overall model performance.