

# Jose Juan Gonzalez Jr

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## EDUCATION

**University of California Irvine** | *Software Engineering B.S.* GPA: 3.67 | Expected: June 2025

*Relevant Coursework:* Algorithms, Data Structures, Database Management, Object-Oriented Programming & Design, Computer Networks, Computer Architecture, Intro to SWE

**Cornell University**, online certificate in Machine Learning Foundations

May 2024 – August 2024

**CodePath**, Certificate in Advanced Technical Interview Prep

June 2024 – August 2024

**CodePath**, Certificate in Intermediate Web Development

September 2023 – November 2023

## PROFESSIONAL EXPERIENCE

**Resolvly - AI Studio Fellow** | Los Angeles, CA August 2024 - Present

- Building an AI-powered college recommendation model using unsupervised, supervised, NLP and validation processes to analyze student input and suggest personalized recommendations to enhance their admission success prospects.
- Integrating NLP to analyze free-text input from students to preprocess into the recommendation model by fine-tuning a LLM to create an interface focusing on enhancing accuracy in personalized college matching.
- Arranging meetings with Resolvly advisors and group mates to iteratively refine the recommendation model to ensure all business problems are being addressed.

**Spider Lab at UCI - Research Assistant Developer** | Irvine, CA November 2023 – April 2024

- Developed a VSCode unit test extension using React and LangChain to automate test case generation which improved coverage and reduced testing steps to one centralized VSCode interface.
- Designed UI components with emphasis on design using figma wireframes my labmates created which improved user experience and reduced cognitive biases common in LLM utilization.

**NASA JPL - Student Independent Research Intern** | Pasadena, CA February 2023 – May 2023

- Reduced ECCO dataset user guide creation work hours by approximately 92% from 480 hours to 40 hours, by creating a LaTeX template and a command-line interface process for dataset visualization and table generation.
- Streamlined reading and graphing all 90 ECCO model sea-ice datasets by reducing steps to 1 command-line interface process using coding python scripts with numpy, xarray, and matplotlib libraries.

## PROJECTS

**PixelPlates** | Next.js, AWS, Supabase June 2024

- Orchestrated development of my class group's foodie review website through coupling supabase for user review data with S3 buckets for photo storage to create an online medium for photo and review posts on food serving businesses.
- Designed a CDN and serverless lambda function to handle photo resizing and delivery with AWS to cache photos and improve accessibility of modifying photo size and quality. (<https://github.com/INF124-Group25/pixel-plates>)

**e-shop Ecommerce Site** | TypeScript, MongoDB, Express, React, Node.js December 2023

- Architected a full stack ecommerce website using React, Redux, Express.js, and MongoDB to build a secure site that handles authentication and authorization for users with CRUD capabilities.
- Deployed monorepo using Render's cloud application hosting to facilitate decoupling of frontend and backend connected by API endpoints to access MongoDB records. (<https://github.com/josegonz115/e-shop>)

## SKILLS & LANGUAGES

**Languages:** Python, JavaScript/TypeScript, HTML/CSS, SQL, Java, C++

**Technologies:** Jupyter Notebook, Pandas, scikit-learn, Node.js React.js, Express.js, MongoDB, Postgres, Supabase, Git

**Leadership:** Data Science Club VP, Spider Lab Research Assistant, ICSSC Special Projects Committee, CodePath Tech Fellow, Break Through Tech Fellow