JUAN MIGUEL CRUZ

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🌐 https://jcruz202.github.io/Juan_Cruz_Personal_Portfolio_Website/index.html

Education

University of Illinois Chicago (UIC)   **Expected graduation: May 2025**

Bachelor of Science in Computer Science – Software Engineering Concentration   *GPA: 3.4*

• **Extracurricular:** Robotics Club - Fall 2021, Campus Outreach - Fall 2021

Technical Skills

Programming Language: Python, C++, C, Java, HTML/CSS, SQL, JavaScript, Scala
Certifications: Responsive Web Design - June 2023, AWS Cloud Practitioner - October 2024

Technical Experience

Here Technologies - Company Hackathon | Github Repo   **October 2024**

• Successfully trained a machine learning model using Python with a 2gb big data, and preprocessed the data to better train the model within a 24-hour hackathon.

• Engineered a solution to extract geometry probe data, simulating vehicle and human movement to improve predictions.

Headstarter - Software Engineering Fellowship   **July 2024 - September 2024**

• Collaborated in a team of 3 to build and deploy 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporating CI/CD practices for iterative deployment.

• Implemented a web scraper to extract data from Rate My Professor and upsert it to a Pinecone index, integrated with a RAG pipeline using LangChain and OpenAI GPT-4o for up-to-date answers to user queries.

Projects

AI Flashcards SaaS - Fellowship | Github Repo   **August 2024**

• Developed a SaaS Flashcards app using JavaScript, integrating 3 key technologies: OpenAI for adaptive content generation, Clerk for authentication, and Firebase for data storage as part of a 7 week fellowship program.

• Leveraged Stripe API for payments and user subscriptions, and deployed via Vercel achieving 99.9% uptime, demonstrating a full-stack development and monetization expertise.

LinkUp - Personal | Github Repo   **September 2024**

• Constructed the architecture for a full-stack mobile application as a personal project using JavaScript and AWS Amplify, integrating AWS Cognito for authentication, S3 for storage, and DynamoDB for database management.

• Enhanced user experience with an AI-powered customer support system using OpenAI, demonstrating integration of advanced technologies in practical applications.

Message App | Github Repo   **April 2023**

• Crafted a Java-based messaging application emulating iPhone functionality, leveraging server sockets to support concurrent multi-client connections.

• Utilized advanced threading and networking protocols to enable targeted individual messaging and selective group communication features.

Leadership Involvement

Society of Hispanic Professional Engineers - Historian & MentorSHPE Mentor   **January 2024 - Present**

• Optimized alumni database management, improving data accessibility and tracking for 100+ members

• Restructured Drive storage, reducing file search time, and enhanced navigation efficiency for board members.

Ignite UIC Leadership Program - Mentor   **September 2022**

• Attained a 6-week leadership training, mentoring 3 freshmen on core leadership principles with 100% program completion rate.

• Facilitated weekly sessions and supported freshmen in building connections and enhancing their leadership abilities.