

Gabriel Fortuny

Miami, FL

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Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science

August 2021 – May 2025

Bachelor of Science in Cognitive Science, Philosophy

- GPA: 3.2/4.0
- **Awards:** University Honors, College of Engineering Dean's Honor List
- **Coursework:** Web Systems, Mobile App Development, Computer Security, Database Management Systems, Data Structures and Algorithms, Software Engineering, Data Science, Computer Organization, Ethics

Work Experience

Software Engineering Intern

Tysons, VA

AiPi Solutions

May 2025 – October 2025

- Engineered and deployed a Flask-based web application on AWS that automated patent valuation analysis, enabling a team of 5 analysts to increase throughput from 1 to 10 patents per day each (10x productivity gain).
- Integrated 2 external APIs and an LLM into the application to enrich patent data and provide advanced analytical features, reducing reliance on manual research.
- Collaborated with domain experts to capture requirements and identify repetitive manual tasks in patent valuation, then automated those workflows in software to maximize efficiency.

Engineering Technician

Ann Arbor, MI

LSA Technology Services

June 2024 – December 2024

- Developed a C# library for automated, reliable control of classroom cameras, enhancing operational efficiency. 🔗
- Configured and integrated audiovisual equipment for optimal classroom functionality.

Software Engineering Intern

Miami, FL

South Pointe Technologies

May 2023 – July 2023

- Designed a relational database for a nonprofit, enhancing data integrity and record-keeping efficiency.
- Developed C++ data preprocessing scripts, automating record migration from Microsoft Access to SQL Server.

Project Experience

AI Assistant for Epilepsy Treatment 🔗

- Engineered an iOS application for epilepsy clinicians leveraging AI to summarize complex clinical reports and extract critical data, featuring a scalable, containerized backend (Docker, Flask, PostgreSQL, Ollama).
- Led database schema and API design, documenting with OpenAPI specifications to enable seamless team collaboration.
- Contributed to full-stack development by implementing API endpoints and building a web portal, while upholding code quality through pull request reviews and cross-team coordination.

Instagram Clone

- Developed a full-stack Instagram clone with a Flask backend and SQLite database, implementing comprehensive RESTful APIs for user authentication, post management, and social interactions, including secure password hashing.
- Designed a dynamic and responsive frontend using HTML, CSS, and React, seamlessly integrated with a RESTful API

Search Engine

- Engineered a scalable search engine using information retrieval (TF-IDF, PageRank) and MapReduce.
- Developed an inverted index and RESTful API, with comprehensive text analysis for efficient search result retrieval.

Skills

Programming Languages: Python, C++, C, C#, Julia, MATLAB

Web Development: Flask, HTML, CSS, React

Databases: SQL, PostgreSQL, SQLite

Tools and Platforms: Docker, Git, GitHub, AWS, VS Code, Linux, OpenAPI, Ollama

Natural Languages: Spanish (native fluency)