Gabriel Fortuny

Ann Arbor, MI

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Summary

Student at the University of Michigan studying Computer Science, Cognitive Science, and Philosophy, driven by a passion for privacy-focused, secure, user-centric software development. Dedicated to building technology that respects individual rights, protects user privacy, and enhances human well-being. Proficient in Python, C++, and SQL, with strong critical thinking and problem-solving skills. Excited to contribute to organizations creating meaningful, values-driven technology.

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**: 3.3/4.0
- ○ **Awards**: University Honors, College of Engineering Dean's Honor List
- ○ **Coursework**: Data Structures and Algorithms, Web Systems, Computer Security, Database Management Systems, Data Science, Computer Organization, Ethics

Work Experience

LSA Technology Services **Ann Arbor, MI**

Engineering Technician *June 2024 – Present*

- ○ Developed a C# library to control classroom cameras, enabling reliable, automated control
- ○ Installed and configured audiovisual equipment, ensuring seamless integration for classroom use
- ○ Optimized processes for preparing, documenting, and organizing inventory, supporting operational efficiency

South Pointe Technologies **Miami, FL**

Software Engineering Intern *May 2023 – July 2023*

- ○ Designed a relational database for a Miami-based nonprofit to improve efficiency in record keeping
- ○ Developed data preprocessing scripts in C++ to migrate records from Microsoft Access to SQL Server
- ○ Created entity-relationship diagrams to effectively communicate database design to supervisors

Lemartec **Miami, FL**

Project Management Intern *July 2022 – August 2022*

- ○ Supported the successful execution of Lemartec's PortMiami Terminal F construction project
- ○ Tracked and reported daily progress on signature canopy features to lead engineers for quality control
- ○ Researched cost-effective decorative gravel options, balancing aesthetics with budget optimization

Project Experience

"Fakebook" **EECS 484 - Database Management Systems**

- ○ Designed and implemented a database for a mock social media platform with complex constraints
- ○ Used Java Database Connectivity to execute SQL queries and efficiently process results

Stock Market Simulation **EECS 281 - Data Structures and Algorithms**

- ○ Developed a C++ program to simulate dynamic trading between buyers and sellers using priority queues
- ○ Implemented stream-based algorithms using a state machine to place optimal trades

Skills

Programming Languages: Python, SQL, C++, C, C#

Web Development: Flask, HTML, CSS, Jekyll, GitHub Pages

Tools: VS Code, Git, GitHub, LaTeX

Languages: Native Spanish speaker