

Gabriel Zavala

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EDUCATION

Florida International University | Miami, FL

B.S. - Computer Science

Expected Graduation December 2023

Cumulative GPA: 3.45

SKILLS

Languages: Java, Python, C, C#, SQL, JavaScript, HTML, CQL

Technologies: Git, GitHub, Git Lab, Bash, Linux, MongoDB, Spring-Boot

RELEVANT COURSEWORK

Data Structures | Operating Systems | Computer Architecture | Intro to Machine Learning | Software Testing | Intro to Artificial Intelligence | Software Engineering | Differential Equations | Probability and Statistics | Database Management

INTERNSHIP EXPERIENCE

Software Engineer Intern | Dell Technologies

May 2023 - August 2023

- Optimized Dell.com performance by implementing efficient C#, JavaScript, and HTML code, resulting in a 15% faster website load time.
- Enhanced user experience by designing and adding intuitive UI/UX features, increasing customer satisfaction by 10%.
- Debugged and resolved critical software issues, contributing to a 15% reduction in user-reported bugs.
- Developed test cases to ensure code security and stability, reducing potential vulnerabilities by 25%.

PROJECTS

Advanced Temporal Extraction and Reasoning System | Java, CQL

- Partnered with MITRE to build an NLP/AI system, automating text analysis and improving data processing efficiency by 25% and extraction accuracy by 15%.
- Built a graph with CQL representing events and key participants in text, interprets complex relations between events obtaining graph readability by a 12%.
- Increased system efficiency of processing textual data by 35%, leading to faster decision-making for MITRE.

Music Genre Classification Using Audio Features | Python, Librosa, Scikit-learn

- Engineered a music genre classification model using the GTZAN dataset, containing 1,000 audio files across 10 genres.
- Trained and evaluated a Support Vector Machine classifier, achieving a 65% accuracy on test set, a 20% improvement over baseline model.
- Employed Python, scikit-learn, and multiprocessing for parallel processing to train and evaluate a Support Vector Machine model with a linear kernel.

Bookstore Management System API | Java, Spring Boot, MongoDB

- Created a RESTful API for a bookstore management system devised to handle over 1,000 requests per day with a response time under 300ms.
- Utilized Spring Boot for rapid application development and efficient dependency management.
- Ensured data persistence using MongoDB, a NoSQL database, for efficient storage and retrieval of bookstore data.

STUDENT ORGANIZATIONS

INIT | Florida International University

January 2023 - Present

- Mentored in club meetings, workshops, and hackathons to expand technical skills and network with fellow students and professionals.