Robert Medina

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EDUCATION

University of Florida   Gainesville, FL
Bachelor of Science in Computer Science, Minor in Digital Arts GPA: 3.46   **Aug. 2021 - Dec 2025**

EXPERIENCE

Software Engineer Intern   June 2024 - Aug. 2024
Lennar Corporation   *Miami, FL*

- Deployed DBT macros reducing repetitive code, achieving a **52% reduction from 7,243 lines to 3,424 lines** of code for key reports, significantly improving efficiency and maintainability
- Implemented SQL queries within the medallion architecture to standardize date formats and scale numeric columns, ensuring clean and analyzable datasets
- Architected incremental logic using macros, reducing **25** lines of code per table to a single call, enhancing readability and performance
- Orchestrated end-to-end migration from JDE to modern Snowflake/DBT stack, harmonizing efforts across **3** engineering teams through knowledge transfer sessions, ensuring zero downtime and data integrity

Technical Stack: Python, SQL, DBT, Snowflake, Github, ReportsNow, JDE

PROJECTS

AWS Quote Automation | *Python, AWS Lambda, S3, SNS, EventBridge*   Jan. 2025 - Present

- Built serverless workflow leveraging **AWS Lambda** to fetch and deliver personalized motivational quotes via **SNS**
- Implemented **S3 storage** for goal tracking and **EventBridge** for scheduled notifications
- Configured IAM policies for secure service-to-service communication

Smart-Study | *Python, OpenAI API, MoviePy, PyMuPDF, TTS, PPTX*   Sept. 2024 - Oct. 2024

- Engineered an automated learning platform that transforms PowerPoints through a modular export system into audio, flashcards, PDFs, and short-form educational videos.
- Leveraged **OpenAI's GPT API** to generate concise summaries with custom memorization techniques from complex lecture content
- This project has personally **saved me at least an hour per day for studying.**

SalsaStep | *Java, Android SDK, SQLite*   Oct. 2024 - Dec. 2024

- Developed a native Android application that helps salsa dancers track practice sessions
- Utilized an accelerometer API for a real-time step tracking system and SQLite database for dance statistic tracking
- Designed a dance move library with difficulty categorization and self-rating system
- Implemented a calendar view for historical practice data visualization

Full-Stack E-Commerce Platform | *MongoDB, Express.js, React, Node.js*   Nov. 2024 - Present

- Architected and deployed scalable **MERN** stack application with **RESTful API** endpoints and **NoSQL** database integration
- Implemented responsive frontend interface using **React**, featuring dynamic product catalog and interactive user dashboard
- Designed **MongoDB** schemas for efficient product and user data modeling, integrated with **Express.js** backend
- Built comprehensive server-side logic using **Node.js**, including authentication, data validation, and error handling

SKILLS

Programming Languages: Python, C++, Java, SQL, JavaScript
Frameworks/Libraries/Database Management/Tools: React, JUnit, PostgreSQL, DBT, Docker
Relevant Coursework: Intro to Software Engineering, Info & Database Systems, Data Struct & Algos
Misc: Fluent in Spanish, AutoCAD certified

INVOLVEMENT

Head of Media & Marketing - Software Engineering Club   Oct.2024 - Present
University of Florida   *Gainesville, FL*

- Drove Instagram social media engagement, reaching **776** unique accounts with **93.5%** follower retention rate through strategic content planning
- Attracted **5,100+** views to the account by creating high-engagement event content averaging **600+** views per post
- Took pictures and kept media history of the club.

ColorStack National: Member; **Society of Hispanic Professional Engineers**: Member; **UF Gator Salsa Club**: Event Coordinating Officer