JOSE GUILLERMO MARTINEZ

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EDUCATION

Georgia Institute of Technology   December 2026 (Expected)
M.S. in Computer Science (Machine Learning), GPA: 4.00
- Related Coursework: Knowledge Based-AI, Analytics Modeling

Texas A&M University   2019 & 2021
B.S. & M.S. in Civil Engineering (Structural Engineering)

TECHNICAL SKILLS

Programming: Python, JavaScript, SQL, HTML, CSS, R, C#, MATLAB
Frameworks/Libraries: Node.js, Express.js, React
Developer Tools/Technologies: VS Code, MongoDB, Git, RStudio, Jupyter Notebooks
Languages: English, Spanish, Japanese (Basic)
Certifications: Google Data Analytics, Google Advanced Data Analytics, DeepLearning.AI Supervised ML

PROJECTS

RESTful API for Movie Rentals   *JavaScript | Node.js | Express | MongoDB*
- Developed a **RESTful Movie API** by designing and implementing **CRUD** operations using **Node.js**, **Express**, and **MongoDB**, enabling efficient management of movie data.
- Established relational data models by creating schemas for movies, genres, and customers with **Mongoose**, facilitating structured data storage and retrieval.
- Enhanced API security and reliability by integrating authentication and authorization mechanisms, implementing data validation, and conducting unit and integration testing.

WORK EXPERIENCE

Parkhill   June 2024 – Present
Software Engineer Co-Op   *Lubbock, TX*
- Optimized **C#** algorithms and data structures within Revit features, resulting in a **30% reduction** in feature code and enhancing efficiency for complex BIM operations.
- **Debugged** existing code and implemented new extensions to significantly **improve maintainability** and streamline future development.

Structural Engineer
- Managed interdisciplinary communication and collaboration across various technical and non-technical teams in order to integrate efforts, mitigate roadblocks, and drive projects to successful completion.

Hunt & Joiner, Inc.   July 2021 – May 2024
Design Engineer   *Dallas, TX*
- Facilitated technical communication between clients and internal development teams using clear, concise language in order to translate complex requirements and resolve technical blockers efficiently, ensuring project alignment and successful delivery.