Michael Lleverino

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Education

Texas State University *Expected Grad: May 2025*
Bachelors of Science in Computer Science | Minor Applied Mathematics

- **GPA 3.68/4.0**
- **Relevant Coursework:** Data Structures, Algorithms, Software Engineering, Artificial Intelligence

Work Experience

Texas State University **Jan 2025 – Present**
Software Developer *San Marcos, TX*

- Developed a **React**-based prototype of a Collaboration Platform to connect **Texas State** students with hands-on projects within the university, enhancing student resumes and job prospects.
- Collaborated with team using **Agile** methodologies, focusing on iterative development, sprint planning, and continuous feedback to ensure alignment with user and stakeholder requirements.

Projects

Workout Tracker | *Source Code* **June 2024 - Aug 2024**

- Developed a full-stack workout tracker using **React Native**, **JavaScript**, **Node.js/Express**, and **PostgreSQL** to manage and track personalized fitness routines
- Implemented **RESTful APIs** for efficient data retrieval and adhered to the **MVC** design pattern to ensure modular, maintainable, and scalable application design.
- Developed core features for workout creation, editing, and management, enabling users to track sets, reps, and weights, with a responsive UI and robust user authentication using **JSON** Web Tokens (**JWT**)

NASA Control Center | *Source Code* | *Website* **Nov 2024 - Dec 2024**

- Developed a NASA Control Center app using **React**, **Node.js**, and **MongoDB** to identify potentially habitable exoplanets from NASA and Kepler data.
- Deployed the app with CI/CD pipelines with **GitHub Actions**, Containerized with **Docker** for streamlined deployment, and hosted it on **AWS** EC2 for scalability and reliability.

Fraud Detection AI Model | *Source Code* **Sept 2024 - Dec 2024**

- Developed a machine learning model for fraud detection, utilizing logistic regression, random forest, and XGBoost on a kaggle dataset, achieving a **96%** accuracy and **0.99** ROC-AUC score.
- Implemented advanced preprocessing techniques such as **SMOTE** for class balancing, **PCA** for dimensionality reduction, and feature engineering to optimize model performance and uncover transaction patterns.

Top Down Tank Game | *Source Code* **Sept 2024 - Dec 2024**

- Engineered a top-down tank game leveraging **MERN** stack(React, Node.js/Express.js, and MongoDB) ensuring seamless integration between frontend and backend systems

Technical Skills

Languages: JavaScript, TypeScript, SQL, HTML5, CSS, Python, Java, C++

Libaries/Frameworks: React, React Native, NodeJS, MongoDB, Tailwind, Bootstrap, Jest, Chart.js

Developer Tools: AWS, Postman, Git, Docker, Github Actions, Jira, Linux