JAMES NGUYEN

Austin, Texas

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Education

University of Texas at San Antonio   **January 2024 – January 2026**
Bachelor of Science in Computer Science, GPA: 4.0   *San Antonio, Texas*

Relevant Coursework

- Database System
- Software Engineering
- Artificial Intelligence
- User Interface
- Operating System
- Systems Programming
- Web Technology
- Cloud Computing

Projects

Nimbus - Weather Forecast Application | *Python Flask, APIs, HTML, CSS, JavaScript, Google Cloud*   **July 2025**
- Developed a single-page web application to display real-time weather data and 8-day forecasts, integrating OpenWeatherMap for geocoding and Open-Meteo API for forecast retrieval.
- Implemented natural language input parsing with Groq LLM to handle unstructured user queries and return structured JSON location data.
- Built interactive data visualizations using Matplotlib to graph temperature trends in both Fahrenheit and Celsius.
- Deployed the application on *Google App Engine* with secure API keys management via Google Cloud Secret Manager and local `.env`.
- Applied cloud-ready design principles including stateless execution, ephemeral file storage in `/tmp`, and environment-specific configurations.

SafeMove - RiverHacks 2025 (Top 5 Overall Track) | *React.js, Python, SerpApi, Docker*   **April 2025**
- Built an AI assistant to help users explore safe, affordable neighborhoods across 64 Austin ZIP codes, filtered by budget, lifestyle preferences, and safety rate
- Integrated SerpApi (Google Maps & Yelp) to retrieve and rank 500+ nearby requested services, sorted by proximity, review ratings, and local crime context.
- Processed 10,000+ raw crime reports from Austin Open Data and developed a severity-weighted scoring model to reduce AI model bias between non-violent and violent offenses.
- Designed a decay-based neighborhood grading algorithm that allows the AI to re-evaluate safety rankings over time.
- Delivered a fully functional application in under 24 hours through strong collaboration, adaptability, and clear communication in a 4-person team, contributing to Austin City's mission to build a safe and accessible community.

Medusa Gym - E-commerce website | *PHP, MySQL, JavaScript, HTML, CSS, AWS*   **January 2025**
- Designed and built a full-stack e-commerce platform for gym equipment, integrating a MySQL database with PHP for server-side logic and JavaScript for client-side interactivity.
- Implemented secure user authentication with PHP password hashing to mitigate SQL injection risks.
- Developed a responsive UI for both web and mobile using HTML, CSS, and JavaScript, with real-time cart updates and sortable product listings.
- Designed a scalable MySQL database to support 100+ user accounts, 10+ product categories, and transactional data (orders, receipts, promo codes) optimized with indexed keys.
- Built an admin dashboard for managing inventory, discount codes, and user orders, supporting real-time CRUD operations, accessible to only admin users.
- Led sprint-based development in a team of 5, completing 6+ major features across 4 Agile iterations, including checkout flow, order tracking, and discount system.

Experience

Amazon, Inc   **February 2024 – July 2025**
Logistic Associate   *Austin, Texas*
- Leveraged attention to detail to maintain accurate inventory management, reducing errors and improving operational efficiency.
- Conducted quality assurance inspections on 200+ items daily, identifying and resolving 100 % of defects.
- Collaborated with cross-functional teams to streamline packaging and shipping processes, enhancing workflow efficiency.
- Demonstrated strong time management skills by consistently processing 260+ units per hour, maintaining operational efficiency while ensuring on-time shipments.

Technical Skills

Languages: Python, Java, C / C++, C #, HTML / CSS, JavaScript, PHP, SQL
Developer Tools & IDEs: : VS Code, Eclipse, XAMPP, Android Studio, Github
Technologies/Frameworks: Ubuntu Linux, Git, Flask, RESTful APIs, AWS EC2, Google App Engine, Docker