Nicholas Gutierrez

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EDUCATION

Farmingdale State College — Farmingdale, NY
B.S. - Computer Science, GPA: 3.87 — *Expected: May 2024*
Coursework: Data Structures and Algorithms, Software Engineering, Database Management, Object Oriented Programming, AI and Machine Learning

TECHNICAL SKILLS

Languages: Java, TypeScript, Python, PHP, Kotlin, SQL, HTML/CSS, C
Technologies: React, Node.js, Express, Vue, Inertia.js, Laravel, Jetpack Compose, Tailwind, PostgreSQL, MySQL
Developer Tools: Git, Unix/Linux, Docker, Google Cloud Platform, AWS, Figma, MongoDB, Railway, Postman

EXPERIENCE

Full Stack Software Engineer Intern — Feb 2024 – Present
BeeEnrolled — *Remote*

- Assisted in the frontend and backend development of an E-learning platform using Laravel, Vue, and MySQL.
- Reduced Vue file complexity by using daisyUI and Tailwind CSS to implement reusable utility classes.
- Improved instructor dashboard layout by creating an API that inserts a date-time field into MySQL to permanently dismiss Vue components that are are no longer needed after their onboarding process is complete.
- Optimized user experience by using Laravel Eloquent to write scoped queries to retrieve data for a Vue component that displays upcoming classes within a user specified time frame.

PROJECTS

AI PDF Analyzer | *NextJS, NeonDB, AWS, PostgreSQL, Drizzle ORM, TypeScript, Tailwind* — GitHub

- Actively developing a webapp focused on users uploading PDF documents which are analyzed by an OpenAI api that users can chat with.
- Referencing the RAG technique in machine learning, PDF documents will be converted into vector embeddings and examined by AI using cosine similarity.
- Enforced least privilege access principles for an S3 bucket by configuring bucket policies and IAM roles to only grant controlled access for authenticated application users.
- Implemented a type safe Postgres database schema by using TypeScript with Drizze ORM to create all necessary tables.

QuickPrompts | *NextJS, React, Google Cloud Platform, MongoDB, Tailwind* — GitHub

- Developed a full-stack web application for sharing AI prompts for use in LLMs such as ChatGPT and Google Gemini.
- Engineered a CRUD API to interact with the MongoDB database, storing all user prompts.
- Leveraged Tailwind responsive design breakpoints to ensure the site layout is consistent across all devices sizes.
- Utilized Mongoose for efficient data modeling and interaction, enhancing the overall performance of the database.

LangBot | *Node.js, Discord.js, Docker, Heroku* — GitHub

- Developed a Discord bot for cross-language communication across over 70 languages
- Integrated various language-related APIs, such as Google Translate, to augment the bot's language capabilities.
- Containerized the application with Docker to encapsulate all dependencies and libraries.
- Configured a CI/CD pipeline using Heroku CI and Pipelines.

VOLUNTEERING

Co-Technical Lead — Sep 2023– Present
Google Student Developer Club — *Farmingdale State College*

Hackathon Mentor — Oct 2023
Climate Hack 2023 — *Columbia University*