

# Nicholas Gutierrez

631-972-8638 | ✉ nickgutierrezdev@gmail.com | 🔗 LinkedIn | 🌐 nicholasg2001 | 🌐 nicholasgutierrez.dev

## EDUCATION

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### Farmingdale State College

Farmingdale, NY

*B.S. in Computer Science, Magna Cum Laude, GPA: 3.84*

*May 2024*

**Coursework:** Data Structures and Algorithms, Software Engineering, Database Management, Object Oriented Programming, AI and Machine Learning, Operating Systems

## TECHNICAL SKILLS

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**Languages:** Java, TypeScript, Python, PHP, Kotlin, C, SQL, HTML/CSS

**Technologies:** React, Node.js, Express, Vue, Laravel, Jetpack Compose, Tailwind, PostgreSQL, MySQL

**Developer Tools:** Git, Unix/Linux, Docker, Figma, MongoDB, Firebase, Postman, Agile

## EXPERIENCE

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### Software Engineer Intern

Feb 2024 – Present

*BeeEnrolled*

*Remote*

- Contributed to full-stack development of an E-learning platform utilizing Vue, Laravel, and MySQL. Implemented key features including new API endpoints, optimized SQL queries, and responsive Vue components.
- Developed Open Graph meta tags by dynamically generating metadata in the HTML head section, improving social media outreach by creating a visually appealing and contextually accurate representation of each URL.
- Enhanced instructor dashboard functionality by developing an API that integrates with MySQL to manage the visibility of Vue components.
- 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

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### AI PDF Analyzer | *NextJS, NeonDB, TypeScript, AWS S3, PostgreSQL, Pinecone, Drizzle*

GitHub

- Actively developing a webapp focused on users uploading PDF documents to an S3 which are scanned into vector embeddings and interpreted by an OpenAI model for users to chat with about the selected PDF document.
- Applied the Retrieval-Augmented Generation (RAG) technique in machine learning to convert PDF documents into vector embeddings and analyze them using vector similarity for AI-driven interactions.
- 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 Drizzle 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

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### Co-Technical Lead

*Google Student Developer Club*

Sep 2023– May 2024

*Farmingdale State College*

### Hackathon Mentor

*Climate Hack 2023*

Oct 2023

*Columbia University*