

# Kyle Grande

New York City | 929-816-3851 | [kyle.g.grande@gmail.com](mailto:kyle.g.grande@gmail.com) | [GitHub](#) | [LinkedIn](#)

## Skills

**Web Development:** HTML5, CSS, JavaScript, Node.js, React, Redux, Express.js, PostgreSQL, MongoDB, REST, GraphQL, Flask

**Data Science / Machine Learning:** Python, Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, TensorFlow, OpenCV, OpenAI,

**Cloud Services:** AWS, EC2, Lambda, API Gateway, S3, RDS, DynamoDB, VPC, CloudFront, Cognito, IAM, C/U Reports

**Mobile App Development:** Swift, UIKit

**Other:** C++, Git, GitHub Docker, Jupyter Notebooks, Agile, Waterfall

## Personal Projects

### GPT CoLab [LIVE DEMO](#)

- Developed an **enhanced ChatGPT multi-chat web application** using React and Python Flask, offering features such as a Python interpreter, user file access, web browsing, OCR (with pytesseract), image creation, recursive prompting, and multi-modal functionality.
- Utilized OpenAI's GPT-4 model for real-time AI-generated responses, incorporating context classification, short-term memory, and dynamic model switching to improve response quality and relevance.
- Integrated Jupyter notebook for secure code execution in a sandboxed environment and file embedding, gracefully handling exceptions and errors, ensuring a smooth user experience while maintaining application stability through rate limiting and API request error handling.
- Managed multiple user instances with UUID and ChatAssistant objects, offering features like saving/loading user-specific API keys, chat history deletion, and personalized storage of messages, files, and user data.
- Designed a dynamic code interpreter UI featuring live console output, syntax highlighting, and seamless multimedia content integration in chat messages. Site features include unique chat instances with UUIDs, responsive UI, resizable sections, and dynamic code snippet navigation.
- **Currently transitioning the project to a serverless architecture using AWS services.**

### Echo Note [LIVE DEMO](#)

- Developed an **AI Note Taking React web app** using OpenAI's Whisper and text-davinci-003.
- Implemented real-time text-to-speech conversion using whisper's speech recognition to accurately transcribe live lectures.
- Enabled automatic note formatting to markdown or latex through text-davinci-003 to organizes transcribed content into well-structured, easy-to-read notes.
- Lecture summary generation through GPT to provide concise overviews of key lecture points, perfect for quick reviews.
- Used keyword highlighting to automatically identify and highlight important keywords and phrases for quick reference and review (exam dates, reference material, etc.).
- Utilized local storage to securely store users' API key and notes, ensuring both privacy and data persistence.

### Stock Sentiment Analysis [LIVE DEMO](#)

- Developed a **serverless sentiment analysis web app** for stock market predictions using social media and news data.
- Utilized Amazon API Gateway, AWS Lambda, DynamoDB, and S3 for data collection from social media and news APIs.
- Leveraged Amazon Comprehend for sentiment extraction for stock predictions.
- Automated data processing for real-time insights into stock market trends.

## Experience

### Owner | Anatta

August 2021 - January 2022

- Launched and grew a thriving **online consignment platform** that reached 150k revenue in the first 6 months. Leading to the successful sale of the business.
- Assisted retailers and online resellers in offloading their inventory through ecommerce outlets.
- Built and mentored a team of 4 members, providing guidance and support as needed.
- Developed custom solutions to streamline the seller inventory process across various platforms, including automating photo editing and listing workflows for increased efficiency.

## Education

### Hunter College | Computer Science BA

August 2020 - Aug 2023

- **Discrete Structures, Matrix, Calculus II, Statistics, Computer Theory, Computer Architecture II, Operating Systems, Cloud Computing, Data Science, Web Development, Software Analysis and Design III**