

# TREVOR KATEMBA

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[Website](#) | [GitHub](#) | [LinkedIn](#)

## EDUCATION

Clemson University, College of Computing and Applied Sciences  
Bachelor of Science in **Computer Science** w/ Minor in **Artificial Intelligence**

Clemson, SC  
Fall 2021 – Present  
GPA: 3.96/4.00

- **Honors:** President's List (x7), Dean's List
- **Interesting Coursework:** Cloud Computing, Artificial Intelligence, Machine Learning
- **Extracurriculars:** National Society of Black Engineers (NSBE)

## TECHNICAL SKILLS

- **Programming Languages:** Go, TypeScript/JavaScript (React), Java, Python, SQL
- **Frameworks/Libraries:** Gin, Spring Boot, Expo, GORM, OpenAI API, Junit
- **Dev Tools:** Git, Docker, AWS, Postman, Trello, Azure AI Foundry, HxGN EAM, Infor ION, NexChat, GONG, Railway

## WORK EXPERIENCE

### ACCENTURE

Fall 2023, Spring 2023, Summer 2024

Industry X Data Analyst (Co-op)

- Wrote **Oracle SQL** scripts to define custom database rules and manipulations within client's Enterprise Asset Management software environments (**HxGN EAM**) to meet their business needs.
- Designed & implemented an **Infor ION** data-pipeline that fetched client vehicle data via REST API, converted the data into XML BODs, and then imported the BODs into the client's EAM environment.
- Built a dashboard & KPI with **Microsoft Power BI** that displayed **AWS CloudWatch** error logs, classified error logs by type, and tracked each error-class count per business day.
- Contributed to **ION integration** documentation, saving 2-4 hours of onboarding time for new users.

### TD SYNnex

Fall 2025

Software Engineer (Capstone)

- Evaluating functionality of **GONG** to develop strategy for classifying points of client interest in its output data blob and then visualizing the points of interest using **Power BI**.
- Auditing TDSX's **NexChat** AI chatbot to determine refinement to its image-data ingestion
- Measuring time and resources saved via chatbot interactions and internal client response quality
- Building our own AI Chatbot using **Azure AI Foundry** to discover improvements for TDSX's.

## PROJECTS

**Hair Product Recommendation Mobile App** | Go, TypeScript, OpenAI API, React Native Expo

- Engineered a REST API in **Go** leveraging **Gin** framework for routing, **GORM** as the ORM for relational data access, and **PostgreSQL** as the persistent datastore.
- Built an AI-powered **recommendation engine** using **OpenAI API's GPT-4o mini**, generating JSON-structured product suggestions based on user hair profiles and a curated system prompt.
- Implemented **custom authentication** with **JWT & Go's Crypto library**, applying industry-standard practices (i.e. Argon2-based hashing, token expiry/refresh) for secure user login and registration.
- Designed and implemented database schemas to represent user profiles, survey responses, and product recommendations ensuring consistent data representation and efficient ORM mapping.
- Containerized the API with **Docker** and deployed the image to Railway for continuous integration.
- Designed and implemented the auth-flow and hair-profile survey UI using **React Native (TypeScript)**.