Kian Andrew Busico

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EDUCATION

New York University Abu Dhabi, UAE   Expected May 2026
Bachelor of Science in Computer Science, Minor in Applied Mathematics   **GPA:** 3.86/4.00

Relevant Coursework: *Fintech Innovations, Data Management and Analysis, Fundamentals of Machine Learning, High Tech Entrepreneurship (NYU STERN), Applied Internet Technology, Intro to Robot Intelligence, Computer Vision, Software Engineering*

PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS), Seattle
Software Development Engineer Intern   May 2025 - August 2025
- Engineered a novel TLS fingerprinting feature in Rust for Amazon's hyper-scale security scanner, providing critical visibility for incident response and compliance. This achieves **98.15%** coverage across public Amazon endpoints that are using OpenSSL, s2n-tls, and rustls in the transport network layer.
- Analyzed TLS client-and-server handshakes for 31,000+ endpoints from all AWS regions worldwide using SQL and established a 400ms benchmark for optimal read timeout to ensure session resumption for clients.

NYU eBRAIN Research Lab, Abu Dhabi
AI Research Assistant (Autonomous Vehicles)   September 2025 - Present
- Developed a scalable fine-tuning pipeline for 3B-parameter Vision-Language-Action (VLA) models using Hugging Face, LLaMA-Factory, and LoRA, enabling adversarial stress-testing of autonomous driving agents.
- Led data ablation research and dataset curation for autonomous driving tasks, systematically analyzing vision-language alignment across varying poisoning ratios (0.5%–50%) to identify optimal configurations.

Metro Pacific Investment Corporations, Metro Manilla, Philippines
Rotational Tech Intern   June 2024 - August 2024
- Designed and implemented a data validation and ETL pipeline for daily traffic and revenue reports, integrating AWS S3 data lakes for all domestic and international business units using Apache Spark and SQL, improving processing time by 96%, from 2 hours to just 5 minutes.
- Analyzed the Customer Persona code's efficiency and potential improvements that checks the reloading and spending behavior of 1M+ app users through ML kMeans clustering.
- Cleaned 100k+ vehicular transactions data for the Traffic Engineering department traffic demand forecast.

Ingenuity Global Consulting, Inc, Davao, Philippines
Lead Artificial Intelligence Intern   June 2022-September 2022
- Spearheaded the development of a chatbot with natural language processing ML techniques and python TensorFlow that answers 35+ frequently asked questions about COVID-19 & vaccinations
- Implemented a Flask-based frontend interface, enabling a seamless and user-friendly interaction experience

PROJECTS

AI-powered Speech Therapist *(Nokia AI Hackathon Finalist) | Llama 3 AI, Python, FastAPI, Wav2Vec 2.0, iOS*
- Developed an end-to-end voice AI platform (iOS + Python) that simulates a human speech therapist, orchestrating real-time audio recording, cloud inference, and synthesized voice playback.
- Architected a fluency analysis engine using Wav2Vec 2.0 to quantify speech impediments by detecting stuttering patterns (repetitions, prolongations) via timestamp-aligned audio processing.

Global Wheels Museum Website | *JavaScript, React, Express.js, Bootstrap CSS, MongoDB, RESTful APIs*
- Designed and developed a full-stack mapping website to showcase 50+ unique, traditional, or extinct modes of transportation worldwide using React, Bootstrap CSS for responsive design, and Express.js for backend.
- Conducted beta testing with 15 users, enabling them to add new modes of transportation and validating submissions through an acceptance or rejection admin workflow.

Analysis of Fintech App Reviews in the Philippines Dashboard | *Scala, SQL, Spark, Apache Superset*
- Developed a dashboard using Apache Spark and enhanced UI design with Apache Superset to highlight the most trusted apps and key performance indicators (KPIs).
- Cleaned and processed over 1 million Google Play Store review data entries using Scala and SQL.

SKILLS AND HIGHLIGHTS

- **Programming Languages:** Rust, Java, Python, Javascript, C++, SQL, CSS, HTML, XML, R, Scala, C#, LaTeX
- **Technologies:** React, RESTful APIs, Linux, Postman, Apache Spark, Power BI, Unity, SUMO, MongoDB
- **AI/ML Tools:** Hugging Face, PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, OpenCV, CUDA, YOLO, ResNet
- **Software Development:** Git, Amazon Web Services (AWS), GCP, Agile,Jira, CI/CD, Integration Tests, Databricks
- **Affiliations/Awards:** DOST Youth Excellence in Science Awardee, Nokia AI Hackathon Finalist