

Frederick Ian Aranico

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Education

Adamson University – BS Computer Science

July 2026

Relevant Coursework: Software Engineering, Data Science, Artificial Intelligence/Machine Learning Skills

Programming Languages: Python, Java, C#, JavaScript, C++, HTML/CSS

Frameworks & Libraries: React, Flask, Django, [ASP.NET](#), Node.js

Databases: MySQL, MongoDB

Cloud & APIs: AWS, REST APIs, LLM APIs, Postman

Developer Tools & Platforms: Git, Google Colab, Power BI, Figma, Shopify

Experience

Software Developer Intern, LGU– Pasig City, Manila

Jan 2023– April 2023

- Led a 4-member team to digitize LGU-Pasig City's manual incident reporting system by developing a normalized MySQL database and automating data migration using C#.
- Directed Agile sprints with code reviews, achieving a **90% reduction in query time, 75% fewer report errors, and 50% lower administrative workload.**
- Engineered the primary C# data-entry application and dashboard, **used by 50+ staff members** to log and track cases, contributing to a **30% faster incident response time.**

Projects

[**Vigilens**](#) | Python, React, YOLOv11, MySQL

2025

- Built a full-stack AI surveillance system that automated anomaly detection to streamline investigations, **earning a 4.66/5 user functionality rating.**
- Developed a scalable multi-process backend for parallel video analysis, facilitating dynamic multi-camera support and achieving a **user usability score of 95.4%.**
- Developed a RESTful API (Flask, SQLite) and React dashboard for reviewing AI-annotated incidents, **significantly boosting usability (p < 0.05) for security professionals.**

[**Scraping Crusaders**](#) | Flask, MongoDB, Gemini API

2025

- Implemented AI-powered web scraping tool using Flask Framework with Gemini API integration for dynamic website interactions and data parsing; **reduced manual data collection by 70% and improved sentiment classification accuracy by 85% using NLP models.**
- Engineered a data processing pipeline that leveraged the Gemini API for advanced sentiment classification, **transforming raw HTML into structured, actionable insights.**

[**AI Sentiment Analysis**](#) | Python, React, MySQL, Tensorflow

2024

- Designed a secure MySQL database for 10K+ user profiles, **ensuring GDPR compliance and achieving zero security breaches through encrypted authentication.**
- Integrated a recommendation API using sentiment data, **cutting complaint resolution time by 30% and increasing upsell opportunities by 15%.**

Certification

IT Specialist - Networking - Certiport

May 2024