

Jeremy D. Fabian

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EDUCATION

Far Eastern University – Institute of Technology

Dec 2022 – Present

BS in Computer Science with specialization in Software Engineering

Relevant Coursework:

- Software Engineering, Database Systems, Operating Systems, Artificial Intelligence

Organizations:

- Association for Computing Machinery Student Chapter (2023–2025) — Member
- Junior Philippine Computer Society (2024–2025) — Member

EXPERIENCE

IBM Solutions Delivery Inc.

May 2026 – Present

Application Developer Intern

Quezon City, Philippines

- Deliver reliable client data into Amazon Redshift by building and debugging AWS Glue ETL pipelines in PySpark, implementing full-reload and delta-load patterns to keep datasets in sync
- Cut ETL pipeline development from 1–2 weeks to 1–3 days by building an AI-assisted code-generation proof-of-concept that drafts PySpark transformations from mapping rules
- Reduce recurring pipeline failures by resolving encoding and invisible-character data-quality errors and authoring an internal transformation-rule reference document

PROJECTS

Sandbox — AI Deployment-Risk Simulation Engine (Hackathon)

May 2026

Next.js 15, React 19, TypeScript, Tailwind CSS, React Flow, Framer Motion, IBM watsonx.ai

- Placed 3rd of 503 submissions and won a \$2,000 prize by building an AI tool that converts an uploaded codebase ZIP into a 0–100 deployment-risk score, ranked issue list, and failure-cascade timeline using IBM watsonx.ai (Granite)
- Delivered a fully functional demo within the hackathon window by building 8 React components (~3,700 lines of TypeScript) with an interactive React Flow system graph and Framer Motion animations
- Ensured reliable AI output across runs by engineering a deterministic analysis pipeline with a no-API-key demo fallback and a Vitest suite enforcing schema, enum, and score-range conformance

DocuTrack — Cryptographically Secured Web Platform for Academic Document Management

Aug 2025 – Dec 2025

Python, FastAPI, HTML, CSS, JavaScript, SQLite

- Built a web platform for academic document submission and checking that flagged 95%+ of altered or duplicate files
- Verified documents in under 500 ms per file with 100% accuracy on valid submissions during testing

SaveMe — Real-Time Accident Detection System Using Computer Vision

Dec 2024 – July 2025

Python, C#, YOLOv8, OpenCV, ONNX, Optical Flow

- Built a real-time accident detection system on CCTV footage at 50%+ accuracy across varied conditions
- Automated SMS/email emergency alerts, cutting notification time from minutes to under 30 seconds
- Cut false positives with Non-Maximum Suppression and handled occlusion via GPU-accelerated multi-vehicle tracking

CERTIFICATIONS

- DevNet Associate — Cisco Networking Academy
- Information Technology Specialist — Certiport (Pearson VUE)
- PMI Project Management Ready — Certiport (PMI)
- Claude in Action — Anthropic

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, CSS, HTML, C++, SQL

Frameworks: React, Next.js, FastAPI, Flask, Django, Express.js, Tailwind CSS

Developer Tools: Git, GitHub, Visual Studio Code, Postman, Docker, npm, Vite