

# Ephraim Flores

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Formerly a Software Engineer in the Philippines, I transitioned to a small town in Manitoba, Canada. Faced with limited tech opportunities for newcomers, I explored various roles, eventually becoming an aircraft mechanic. However, my passion for computing never waned. After recently completing the Computer Systems Technology program at BCIT, I am eager to re-enter the tech industry and apply my strengthened technical skills.

## Skills

**Languages & Frameworks:** C/C++, Java, Python, JavaScript, Kotlin, HTML, CSS, Node.js, ReactJS, FastAPI, Django, Bootstrap, Tailwind CSS

**Technologies & Tools:** AWS, Firebase, MongoDB, Docker, REST API, GitHub, VS Code, Eclipse, IntelliJ, CLion, Android Studio, PyCharm, Vector CANoe, Fujitsu Softune Workbench IDE, SingleView, HP ALM

**Others:** Embedded Software Development, MCU Programming, Testing & Debugging, CAN/LIN Data Bus Network, Oscilloscope

## Relevant Work Experience

### Software Quality Analyst

Aug – Nov 2015

*Philippine Long Distance Telephone Co. (PLDT)*

*Makati City, Philippines*

- Performed GUI testing and backend testing using SingleView Convergent Billing System.
- Created and executed test scenarios for regression testing.
- Developed and maintained comprehensive test plans, cases, and bug reports to ensure full test coverage and clear communication of issues.

### Embedded Software Engineer

Oct 2011 – Jun 2015

*Denso Techno Philippines Inc.*

*Makati City, Philippines*

- Led six projects, managing estimation, task assignment, progress tracking, and final client deliverable – all completed on time and with high quality.
- Developed embedded software in C and Assembly code for Toyota HVAC systems used in production vehicles, following the V-model SDLC.
- Tested and validated modules through unit and integration testing using Vector CANoe and Fujitsu Softune Workbench IDE, applying black-box and white-box methods to identify defects and ensure system stability.
- Consistently recognized for high performance and leadership potential, earning assignments to senior-level projects ahead of peers.

## Education

### Computer Systems Technology Diploma

Jan 2024 – Dec 2025

*British Columbia Institute of Technology*

**GPA: 91%**

### Bachelor of Science in Information Technology

Jun 2006 – Apr 2011

*Pamantasan ng Cabuyao (University of Cabuyao)*

## Projects

### Incident Reporting Portal (Django, React, PostgreSQL, Docker) | Practicum(IATSE Local 891)

Sep - Dec 2025

- Collaborated in a team of five to develop a full-stack incident reporting portal from scratch using Django, React, and PostgreSQL.
- Made significant contributions to backend development, including designing RESTful APIs, implementing role-based access control, and authentication workflows.
- Dockerized the backend services to ensure consistent development and deployment environments.

### FaaSify (AWS – API Gateway, Amplify, Lambda, DynamoDB, SES, S3) | Academic Project

Oct – Dec 2025

- Collaborated in a team of 11 to develop a serverless e-commerce platform supporting buyer and seller accounts, storefronts, product listings, secure checkout, messaging, and store subscription.
- Implemented a storefront subscription and notification system using DynamoDB Streams and AWS Lambda to trigger automated email alerts via Amazon SES when new items are added.
- Built image upload functionality for seller listing by storing images in Amazon S3 and persisting S3 URLs in DynamoDB for scalable and reliable access.

### BirdQuest (React, Node.js + Express, MongoDB, Hugging Face ResNet-50 Model) | Academic Project

Nov 2025

- Collaborated in a team of 3 to build an AI-powered bird collection app that identifies bird species from uploaded images and tracks user collectibles.
- Integrated the Hugging Face ResNet-50 model by creating a custom Node.js + Express inference server to exposed required classification details via REST APIs.
- Deployed the AI model on DigitalOcean and developed backend routes to communicate with the model and return predictions to the application.

**Recipe Finder (Android, Kotlin, DummyJSON API) | Personal Project**

Aug 2025

- Built an Android app using Kotlin and Jetpack Compose that lets users search recipes by ingredients, browse recipe catalogue, and save favourites for quick access.
- Integrated the DummyJSON API for fetching recipe data with custom query selections.
- Used Room database for local storage of saved recipes.

**pos-integrator (FastAPI, PostgreSQL, Docker) | Practicum(Stocky AI)**

Apr – May 2025

- Contributed to five 1-week sprints, participating in daily stand-ups and weekly reviews.
- Built FastAPI endpoint to fetch POS data from Square and Clover APIs, storing it in a Docker-hosted PostgreSQL database.
- Developed Pytest unit tests to ensure integration reliability.

**ReloCash (AWS – Cognito, DynamoDB, EC2, S3) | Academic Project**

Feb – Apr 2025

- Developed a full-stack moving-services marketplace in a 3-person team using JavaScript and Node.js, deployed on Amazon EC2.
- Implemented authentication with Amazon Cognito; managed data in DynamoDB and media in S3/EFS for scalability.

**CallScribe (Python, OpenAI API) | Personal Project**

Nov 2024

- Developed a Python-based application for generating and analyzing call transcripts using OpenAI's GPT APIs.
- Implemented audio file upload and direct recording functionality within the app.
- Enabled users to ask questions about the transcript and receive accurate, AI-generated responses.

**DocuMint (ReactJS, Tailwind CSS, MetaMask Integration, Blockchain) | Academic Project**

Apr – May 2024

- Collaborated in a team of five to develop a blockchain-based web application that enables users to convert their important documents into Non-Fungible Token (NFT).
- Implemented the front-end using ReactJS and Tailwind CSS and integrated the application with MetaMask wallet.