

## EXPERIENCE

### Senior Backend Engineer LOCQ OPC.

May 2023 – June 2024  
Pasig, Metro Manila

Developed and maintained backend services for PriceLOCQ, a fuel-saving and car-care application for both regular consumers and businesses.

**Technologies used:** AWS SAM, AWS Serverless, AWS Lambda, AWS DynamoDB, NestJS, NodeJS, React, MySQL, REST API, SonarQube, DataDog

#### Accomplishments:

- Collaborated with both mobile and web developers to integrate functional and performant features.
- Coordinated development efforts to design cohesive code to enhance the team's development velocity.
- Implemented a scheduled service that generates reports for customer engagement and support.
- Developed and maintained high-performance backend systems by optimizing database integration and queries resulting in an increase of 60% in response time.
- Spearheaded code quality efforts by creating a CLI tool to auto-generate unit test script templates resulting in a 200% increase in development efficiency.
- Created and maintained AWS SAM templates for IaC (Infrastructure as Code) deployment.
- Created a script to automate the creation of cloud architecture diagrams by scanning through the source code and generating diagram images to document our pub/sub architecture.
- Implemented transaction continuity alerts and other internal alerts integrated via Slack notifications.
- Improved the CI/CD processes by integrating SonarQube code quality scans with GitHub Actions.

### Senior Software Engineer Maya Philippines

Jan 2023 – May 2023  
Mandaluyong, Metro Manila

Developed and maintained backend systems handling crypto transactions for a FinTech company.

**Technologies used:** AWS Serverless, AWS Lambda, AWS EKS, NestJS, NodeJS, PostgreSQL, Grafana, REST API

#### Accomplishments:

- Collaborated with mobile developers and other team members to establish objectives and coordinate development efforts to design functional and cohesive code to enhance user experience for millions of users.
- Implemented a daily scheduled generation of transactions report by crossmatching partner and service records which resulted in an improvement of 20% in data accuracy.
- Developed and maintained high-performance backend systems, resulting in a positive impact on the product's overall performance.
- Refactored backend session management handling to improve loading times and fix session suspension when launching SDKs.
- Implemented a Database logging logic to enable alerts and monitoring for success/failure transactions.
- Increased code coverage to >95% for unmaintained microservices.
- Implemented Standardized Error Codes and Responses across all backend services.

### AI Engineer Accenture

Feb 2021 – Dec 2022  
Mandaluyong, Metro Manila

#### Project #2: Backend Developer

Part of a team of developers that developed multiple chatbots for a multi-national telecommunications company using a proprietary bot framework.

**Technologies used:** Microsoft LUIS, Azure Cloud Services, NodeJS, MongoDB, REST API

#### Accomplishments:

- Identified and addressed a process bottleneck in chatbot response development and created a CLI automation tool that executes the response creation/updates based on an Excel file effectively improving development efficiency by 95%.

- Created a CLI tool to auto-generate unit test scripts resulting in a 300% increase in code coverage progress during development.
- Created a CLI tool to generate an excel report of the NLU Model complete with information such as: utterance count per intent and language, entities and assigned synonyms, phrase lists, etc.
- Created a script to check and create an excel report regarding intent overlap in the current NLU Model.
- Created a CLI tool to automate mass code changes reducing the projected development time from 2-4 weeks to 5 days.
- Initiated the creation of a microservice to improve deployment process of code changes resulting to a decrease in deployment time of 30+ mins to only 2-5 mins.
- Wrote KQL scripts to display core chatbot metrics in Azure Dashboards.
- Wrote shell scripts for automated set up of local development environment to be used by new resources.
- Developed complex conversation flows and features such as disambiguation, use cases linking, going-away messages, language selection flow, etc.

### Project #1: Full Stack Developer

Part of a team of developers that developed a platform for building conversational AI solutions. Complete with services to manage end-to-end lifecycle of a conversational AI solution with modules for Bot design, execution, analytics, and agent escalation.

**Technologies used:** NLPs, AWS, NodeJS, MongoDB, Angular 12, SaSS, Elasticsearch, REST

#### API Accomplishments:

- Refactored the existing data validation functionality and replaced it with an extensible and dynamic logic for building validation schemas.
- Developed complex bot design features such as utterance annotation, entity tagging, and
- Created dashboard features and animations for a business analytics service such as conversation flow animation, charts, metrics, etc.
- Implemented functionality for Speech-to-Text (STT) Service integration to virtual agents.
- Fixed a long-standing bug just after a few days of working as a newly joined associate developer.
- Collaborated with international team members during feature development.

## EDUCATION

### Bachelor of Science in Electronics and Communications Engineering

Central Philippine University

Apr 2019

Jaro, Iloilo City

## TECHNICAL SKILLS

**Programming Languages:** JavaScript | Typescript | Python | C++

**Frameworks:** NestJS | Angular | React

**DBMS:** MySQL | MongoDB | PostgreSQL

**Natural Language Processing:** Microsoft LUIS | Google Dialogflow | Amazon Lex | IBM

Watson **Cloud Platforms:** Amazon Web Services | Azure Cloud Services

## CERTIFICATIONS

<b>Certified Developer Associate</b>	Amazon Web Services	Dec 2021 – Dec 2024
<b>Cloud Practitioner</b>	Amazon Web Services	Jun 2021 – Dec 2024
<b>Licensed Electronics Engineer</b>	PRC	
<b>Licensed Electronics Technician</b>	PRC	