

# Alvin B. Almodal

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## PROFESSIONAL SUMMARY

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Senior Software Engineer with 10+ years of experience in cloud-native application development, data engineering, and system modernization. Proven track record of migrating legacy systems to modern architectures across AWS and Azure, building data pipelines with Dagster, and delivering end-to-end solutions in healthcare, fintech, travel, and government sectors. Currently completing a Master's in Information Technology.

## TECHNICAL SKILLS

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**Languages:** C#, Python, TypeScript, JavaScript, SQL, PHP

**Backend:** ASP.NET Core, .NET Framework, Node.js, Flask, Laravel, Entity Framework, REST APIs

**Frontend:** Angular, React, HTML5, CSS3, Bootstrap, jQuery

**Cloud - AWS:** ECS Fargate, ECR, S3, RDS, DynamoDB, Lambda, EventBridge, SQS, SNS, API Gateway, Glue, Athena, Cognito, SES, Secrets Manager, CloudWatch, EC2

**Cloud - Azure:** App Services, DevOps, Functions, Key Vault, AD B2C, Queues, Bicep

**Data Engineering:** Dagster, DBT, Medallion Architecture (Bronze/Silver/Gold), ETL Pipelines, Data Lakes

**DevOps & Tools:** Docker, Terraform, GitHub Actions, GitLab CI/CD, Azure DevOps

**Databases:** SQL Server, PostgreSQL, MySQL

**Testing:** xUnit, Selenium, Playwright

**AI & Automation:** Claude Code, GitHub Copilot, Ollama (on-prem LLM deployment)

## PROFESSIONAL EXPERIENCE

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### Senior Software Engineer (Consultant)

Feb 2023 - Present

*Jetabroad - Online Travel Platform*

- Enhanced and maintained a complex pricing rule engine, implementing new competitive pricing rules for ticketing products
- Led migration from legacy .NET Framework to .NET Core, improving performance and maintainability
- Migrated legacy SOAP vendor integrations to RESTful services, reducing integration complexity
- Integrated Google Analytics and Microsoft Clarity to enable data-driven monitoring of user behavior
- Migrated customer management system to Zendesk with automated ticket creation and live chat integration
- Built REST API endpoints to automate finance activity workflows

### Senior Software Engineer - Data & Cloud

Aug 2023 - Jun 2025

*Med-Metrix Philippines - Healthcare Revenue Cycle Management*

- Architected and deployed data pipelines using Dagster with Medallion Architecture for structured and unstructured data assets
- Designed event-driven architecture connecting legacy and modern systems using AWS EventBridge, SQS, SNS, and Lambda
- Migrated on-premises applications to AWS ECS Fargate, reducing infrastructure overhead
- Built data lake infrastructure with AWS Glue and Athena for enterprise analytics
- Created CI/CD pipelines using GitHub Actions and Terraform for infrastructure-as-code deployment
- Optimized long-running SQL Server queries, improving report generation performance
- Migrated unsecured configurations to AWS Secrets Manager, strengthening security posture
- Led lift-and-shift migration of on-prem servers to AWS cloud infrastructure

### Senior Software Engineer (Consultant)

Aug 2022 - Jul 2023

*Provoke Solutions - New Zealand Government Projects*

- Migrated legacy government applications to Angular / .NET Core / Azure, modernizing critical public services
- Upgraded SQL Server 2012 databases to SQL Server 2019 with data integrity validation
- Implemented Azure AD B2C authentication and MSAL-Angular route guards for secure API access
- Built anti-corruption layer using Azure Functions and Queues to decouple legacy systems
- Configured CI/CD pipelines using Azure DevOps with Bicep infrastructure templates

### Senior Full-Stack Developer (Consultant)

Apr 2022 - Jan 2023

*Playter - Buy Now Pay Later FinTech Platform*

- Developed frontend features for admin dashboard using Angular v12 and backend APIs using C# / .NET Core

- Migrated monolithic .NET Core 3.1 ABP application to microservices architecture
- Managed cloud infrastructure using Terraform and configured monorepo CI/CD via GitLab
- Implemented user authentication and role-based permission management

### **System Analyst / Senior Full-Stack Developer (Consultant)**

Oct 2021 - Oct 2022

*Burket (DOST-Funded) - Philippine B2B Marketplace*

- Led requirements analysis with stakeholders and designed system architecture using Azure and AWS services
- Developed Vendor Management System with SSO via AWS Cognito and notifications via AWS SES
- Managed project delivery using JIRA for sprint planning and task tracking

### **Assistant Manager / Programmer Analyst - Cards Development**

May 2019 - Jun 2022

*East West Banking Corporation*

- Automated manual ETL processes, file encryption, and SFTP uploads using C# background services, eliminating hours of manual work
- Optimized SQL queries to significantly improve report generation performance
- Migrated legacy VB6 applications to modern .NET stack
- Maintained and enhanced web services for card operations

### **Software Developer - EMV Card Systems**

Mar 2017 - Oct 2018

*DZ Card Philippines Inc.*

- Built QA system for EMV card validation and incident report management system using .NET Core
- Developed ETL applications for card data processing for multiple Philippine banks
- Automated instant issuance data preparation workflows, reducing turnaround time
- Trained programmers and production personnel on EMV personalization processes

## **EDUCATION**

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### **Master in Information Technology**

Expected Jul 2026

*National University, Laguna*

Capstone: Adaptive Web Content Filter using mitmproxy with on-device AI/LLM services

### **Bachelor of Science in Computer Science**

2012 - 2013

*STI College, Calamba*

## **CERTIFICATIONS & TRAINING**

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- Python & Data Engineering courses - DataCamp (ongoing since 2023)
- .NET & Angular courses - Pluralsight (ongoing since 2022)
- Full-Stack Engineer Career Path - Codecademy, 2021
- EMV Personalization & Testing - DZ Card Thailand, 2017-2018