

Joshua Aguilar Senior Backend Engineer

 simpsonjoshua11.11@gmail.com

 +63 09639028820

 Bacolod City, Negros Occidental, Philippines

 Portfolio: <https://joshuaaguilar.vercel.app>

 LinkedIn: <https://www.linkedin.com/in/joshua-aguilar-335064399>

PROFILE

Backend engineer with nearly a DECADE of experience designing scalable APIs, building distributed event pipelines, and deploying cloud-native platforms across Azure and AWS. Focused on robust engineering practices, reliability, and long-term maintainability.

SKILLS

Backend Development

Python, Node.js (TypeScript, JavaScript), Java (17+), Spring Boot, Go (Golang), GraphQL, REST, gRPC, Event-Driven Architecture, Apache Kafka, RabbitMQ

Frontend Development

React.js, Next.js, Angular.js, Vue.js, Tailwind CSS, HTML/CSS

Databases

PostgreSQL, MongoDB, MySQL, Redis, DynamoDB, Cassandra

Cloud & Infrastructure

- **AWS:** EC2, ECS, ECR, EKS, Fargate, Lambda, API Gateway, EventBridge, SQS, SNS, DynamoDB, RDS, S3, CDK
- **Azure:** Azure Data Factory, Azure Functions, Azure Databricks, Azure Storage, Azure App Services, Azure Monitor

DevOps & Observability

Docker, Kubernetes, GitHub Actions, CI/CD Architecture & Pipelines, Terraform, Jenkins, Prometheus, Grafana, Datadog

PROFESSIONAL EXPERIENCE

[05/2024 – 10/2025](#)

Manila, Philippines

CLOUDSYNC TECHNOLOGIES (Remote), Senior Backend Engineer

- Built backend services using **Python (FastAPI, Django)** and **Node.js** for document ingestion, parsing, validation, and workflow automation; added asynchronous processing with **RabbitMQ** and cloud queues.
- Developed and improved **ETL pipelines** using **Azure Data Factory** and **Azure Functions** to process tax documents accurately and efficiently.
- Set up **CI/CD pipelines** with **Azure DevOps** and **Jenkins**, using containerized workflows to speed up deployments and cut release errors by **60%**; added monitoring with **Azure Monitor**, Datadog, and Prometheus.
- Worked with product and QA teams using **Jira** for sprint planning and delivery.
- **Key Highlight:** Built the automated validation engine that reduced manual review by **75%** and became the core workflow for all client implementations.

[11/2022 – 02/2024](#)

Hong Kong, China

SENSETIME (Remote), Senior Backend Engineer

- Designed and built backend systems for the **NovaPay Fraud Detection Platform** using **Java 17, Spring Boot**, and **Kafka**, supporting over **2M events per day** with sub-100ms processing.
- Created real-time event pipelines for transaction scoring, reducing fraud detection time from **5 minutes to under 10 seconds**.
- Developed secure **REST/gRPC APIs** that connected banking partners with internal AI models for continuous fraud prediction.
- Automated deployments using **Jenkins** and **Terraform**, improving release reliability and cutting deployment time by **70%**.
- **Key Highlight:** Built the core fraud analysis engine that powers all production transaction checks and prevents daily financial losses.

05/2017 – 10/2022

Quezon City, Philippines

EXIST SOFTWARE LABS, Full Stack Engineer

- Led backend development for the **ShipFlow Logistics Platform**, designing the full **Django + React** architecture and delivering **scalable, reliable** connections between real-time shipment data and enterprise dashboards.
- Built and maintained **high-volume asynchronous workflows** using **RabbitMQ**, supporting **70K+ shipment updates/day** with **low latency** and stable system performance.
- Developed **geo-tracking, predictive routing, and delivery analytics** modules using **AWS Lambda, DynamoDB**, and serverless patterns, helping reduce client delivery times and fuel consumption by **18%**.
- Improved platform performance through **API optimization, database tuning, and frontend performance improvements**, achieving a **35% faster load time** and increasing overall user satisfaction.
- Drove **CI/CD modernization** using **GitHub Actions, Docker**, and **infrastructure-as-code**, enabling **faster, more reliable releases** and better environment consistency across development, staging, and production.
- **Key Highlight:** Designed the platform's **real-time messaging backbone**, forming the **core event-processing layer** used by all enterprise clients for shipment tracking and operational visibility.

06/2016 – 04/2017

Quezon City, Philippines

SYTIAN IT PRODUCTIONS, Software Engineer

- Assisted in building **ETL pipelines** using Azure Data Factory and Databricks, helping integrate data from ERP, CRM, and HR systems into unified workflows.
- Supported the development of **financial and operational reports** using Power BI, enabling teams to view updated metrics and business data more easily.
- Performed **data validation, testing, and documentation**, ensuring pipeline accuracy, clean data flows, and consistent reporting for internal teams.

EDUCATION

04/2012 – 05/2016

Quezon City, Philippines

Ateneo de Manila University (ADMU),

Bachelor of Science in Information Technology Entrepreneurship