

Norman P. Banzon Jr.

Backend Engineer

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Backend Engineer with focus on microservices and system-wide architecture. I specialize in building data pipelines and managing how services interact via REST and gRPC. I have deep experience integrating complex third-party systems, particularly in Real Estate and Samsung ecosystem platforms, creating stable end-to-end data synchronization.

EXPERIENCE

Backend Engineer *May 2025 – Present*

Vivacity App, London, UK

- **Property Management Integration** - Implement data integration pipelines that absorb and synchronize property information from multiple student accommodation platforms, including Yardi, Entrata, Sturent, Student Suite.
- **Enquiry Integrations** - Implement and Manage enquiry integrations to services such as Hubspot, Servicenow, Unilodge Application, Entrata, Wechat Notification. Configure/Create Mappings for configurable data synchronization.
- **Search Infrastructure Migration** - Upgrade the search infrastructure by migrating from Algolia to Elasticsearch and Tencent ES. This improves the search performance for Global and China users using our Mini Programs, improves Search Result by using search templates that can be optimized dynamically without deploying changes, and uses ES highlights query template for autocomplete for our mini app search specific reasons.
- **AI Search Agent** - Implement Vector Search Embedding, Embed the ingest data using different AI models and sync to ES, Configure Prompt and AI response to handle related Property information queries, FAQ's, Room Prices Etc.
- **KrakenD Api Gateway** - Built a custom API gateway based on KrakenD open source to streamline integrations, This also helps prevent us from paying more from Azure API gateway with quota limit.
- **Day to Day Operations** - such as Implement Nestjs modules, Rest and GRPC communications, redis bull queues, fix BigQuery SQL queries and datafarm releases for reporting. Mongodb and Kubernetes operations, Cloudflare, fix system server alerts and collaborate with the team.

Senior Analyst to Team Lead *May 2019 – May 2025*

Accenture, Philippines

- **Flask Application Serverless** - Configure/Deploy Flask Application to Staging and Production Environment, uses AWS services such as lambda, route 53, API Gateway, GitHub Action to Automate the Deployment process into AWS Lambda functions.
- **Samsung Vendors integration** - Implemented API Integrations between SAP Hybris and third-party vendors, includes Implementing authentication, data mapping, and other business logic. Collaborating with QA and other teams to meet deadlines.
- **Health Check Monitoring** - Implement health monitoring and alerting, utilizing AWS Metrics, Lambda invocations/errors, Sentry SDK and AWS SES
- **Android Samsung App** - Analyze the feasibility of the requirements. evaluates the availability and accessibility of data through various Samsung Ecommerce API, Collaborate and Implement features requested by the business.

Software Engineer *August 2016 – May 2019*

Revolution of Kitten INC., Cebu, Philippines

- Implement QI Messaging websocket communication between Pepper Robot and Raspberry Pi
- Implement Python Gatttool script to gather and convert Nissei Thermometer BLE packets data to readable temperature data
- Implement POS Printer Integration
- Developed React Native Application for patient temperature data.

EDUCATION

BS Computer Engineering *2011 – 2016*

WLC, Ormoc City

- Achievements: Computer Systems Developer of the year (2016)

SKILLS

Backend & Infrastructure: GRPC, Microservices, NestJS, Kubernetes, Azure Pipeline, Redis, Mongodb, DigitalOcean, Cloudflare, Elasticsearch, Tencent ES, KrakenD (opensource), WSL, Azure Devops, Docker Images, Kube Pods, Port Forwarding, Kubectrl,

BigQuery, Postman, Hopscotch, Hubspot, Auth0, Servicenow, Student Crowd, Entrata, Tencent SCF, Vector Search Embedding, Behavioral Analytics, Google Analytics, Dataform

Cloud & Application Development: Android Development, Flask, Firebase, Java, JS, Python, AWS (Lambda, API Gateway, IAM, Cognito, Route 53, S3, OpenSearch, DynamoDB), WSL, GitHub Actions, Zappa

Robotics & Frontend: Softbank Robots SDK (Pepper and Nao), Choregraphe, React Native, JQuery, JQuery Mobile, HTML, CSS, Javascript, POS Printer, Python, Gattool, QI Messaging, Naoqi SDK, PostgreSQL

Portfolio

<https://npbjr-portfolio.vercel.app/>

Personal Projects

<https://bayanihan-web.vercel.app/> web 3d game using [three.js](#)