

# Mac Bao Hung

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## Backend Java Developer

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## SUMMARY

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Backend Java Developer with **5+ years** of experience building scalable systems using **Java / Spring Boot, Microservices, Kafka, PostgreSQL / MongoDB / Redis**, and **AWS**.

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## EDUCATION

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### B.E. Electronics and Telecommunications

Ha Noi University of Science and Technology · 2016 – 2021

**Language Certificates:** TOEIC 885/990 · TOEFL iBT 87/120

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## SKILLS

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- **Languages & Core**
    - Java (8, 11, 17, 21), OOP, Design Patterns, Multi-tenant & Microservices architecture
  - **Frameworks**
    - Spring Boot, Spring Data (JPA, Hibernate), QueryDSL, Spring Security (OAuth2, JWT, Keycloak), Spring AOP, Apache Kafka, Quartz Scheduler
  - **Databases**
    - PostgreSQL (schema design, optimization, RLS), MongoDB (aggregation pipelines), Redis (caching, distributed lock), Liquibase
  - **Cloud & DevOps**
    - AWS (S3, SNS/SQS, RDS, DynamoDB, ECS/EKS, Lambda, CloudWatch, Bedrock), Docker
  - **API & Protocols**
    - REST, OpenAPI/Swagger, gRPC
  - **Working with AI Agent**
    - Define/Create Cursor rules/Claude.md files to support prompting
    - Improve automate workflows using Claude's commands/skills/hooks
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## EXPERIENCE

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### Backend Developer – Pryvaxy – Eastgate Softwares

Network Security & WiFi Monitoring Platform

**01/2025 – Present** · Team of 7

AI-powered platform which ingests WiFi/Bluetooth data for Location analysis and Threat detection

- Designed and implemented **Pryvaxy platform** with:
    - Microservice architectures using Kafka and Rest API for inner communication
    - Multi-tenant using tenant ID + Row level security with PostgresSql
  - Implemented **Kafka + Protobuf** for:
    - Ingesting raw data from Access points with peak of ~20k event/minute
    - Kafka Stream with sliding window for event aggregations
  - Implemented **Quartz-based jobs** for data aggregation, housekeeping, and analysis.
  - Designed and applied configurable **Rule-based engine** using **Spring SpEL** for device classification, network evaluation and threat detection
  - Implemented **Email OTP** with **Redis** for storage, TTL, and rate limiting.
  - Integrated AI models to classify devices, networks and threats
  - Created Claude's rules/commands/skills to automate code review/documents/release notes...
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## Backend Developer – Insight – Eastgate Softwares

*Insight Traffic Analysis System*

**06/2024 – 12/2024** · Team of 5

Multi-tenant microservice system that consumes traffic events from IoT devices and provides custom analysis to customers.

- Designed and implemented **DataHub** (ingestion) and **Analysis Service** (reporting)
  - Implemented **multi-tenancy**: One Database – Multi Schema isolation.
  - Integrated **Kafka** for consuming and processing traffic events; **Redis** for distributed caching.
  - Applied **Liquibase** for DB migrations; **Testcontainers** for integration testing
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## Backend Developer – Cloud Diagnostic Vehicle – Bosch Global Software Technology

*Cloud Vehicle Diagnostic Service*

**11/2022 – 06/2024** · Team of 10

Centralized cloud platform aggregating multi-source automotive data for proactive maintenance and failure forecasting.

- Designed and implemented **connector services**:
    - APIs / Excel / CSV / Kafka → events → **SNS/SQS**
    - Applied **transactional outbox** for event integrity; **FIFO SQS** with event ID for ordering and idempotence.
  - Implemented **Diagnostic Service**: event processing, fault construction, user notifications; multi-tenant isolation; **OAuth2 with Keycloak** (custom tenant claims).
  - Built common libraries for third-party APIs and AWS (S3, SNS); **MongoDB** aggregation for analysis; **EH Cache & Redis**; DB migration with Mongock; Spring 2 → 3 upgrade.
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## Backend Developer – NatCash E-Wallet – Viettel Digital Service

*NatCash E-wallet System (Haiti market)*

**01/2021 – 10/2022** · Team of 7

E-wallet system: legacy maintenance and migration to microservices for the Haiti market.

- **Legacy**: Maintained and extended **PL/SQL** and **Java 1.6** monolithic NatCash system.
  - **Migration**: Analyzed finance logic, documented requirements, designed microservices; **migrated PL/SQL to Java 11** microservices; **gRPC** for internal communication.
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