

# Dennis Kong

📍 Calgary, Alberta, Canada ✉️ denniskong0823@gmail.com 🌐 in/denniskong823

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## SUMMARY

Backend-focused full-stack developer with 7+ years of experience designing scalable APIs and microservices for **fintech** and **healthcare** systems. Proficient in **Node.js**, **Express**, and **NestJS**, with a strong emphasis on optimizing database performance, security, and cloud infrastructure. Skilled at bridging **React** frontends with robust backend architectures to deliver seamless user experiences.

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## SKILLS

**Backend:** Node.js, Express, NestJS, REST/GraphQL APIs, PostgreSQL, MongoDB, Redis

**Frontend:** React, Next.js, TypeScript, Redux

**DevOps:** AWS (EC2, Lambda, S3), Docker, RabbitMQ, GitHub Actions

**Testing:** Jest, Postman, Mocha

**Tools:** Swagger, OAuth2, JWT, WebSocket

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## EXPERIENCE

### Senior Full Stack Developer

WillowTree

May 2022 – February 2025, United States

- Designed a **NestJS**-based transaction service for a healthcare platform, handling 5K+ daily requests with 99.9% uptime.
- Optimized **PostgreSQL** queries using indexing and caching strategies, reducing dashboard load times from 12s to 2.5s.
- Built a real-time notification system with **WebSocket** and **RabbitMQ**, cutting API polling traffic by 70%.
- Deployed **AWS Lambda** functions for serverless data processing, lowering infrastructure costs by 25%.
- Implemented role-based access control (**RBAC**) for HIPAA compliance, securing patient data across microservices.

### Full Stack Developer

Gynger

April 2019 – April 2022, United States

- Migrated legacy **PHP** payment APIs to **Node.js/Express**, improving response latency by 60%.
- Developed a dynamic pricing engine in **Python** integrated with **Node.js** microservices, reducing fee calculation errors by 15%.
- Secured financial APIs using **OAuth2** and **JWT**, achieving SOC 2 compliance for 80K+ users.
- Containerized services with Docker and orchestrated deployments via **GitHub Actions**.

### Frontend Developer

WebZap Technologies

July 2017 – April 2019, Hong Kong

- Built **RESTful APIs** for e-commerce inventory management, supporting 50K+ SKUs with **Elasticsearch**.
- Integrated third-party payment gateways (**Stripe/PayPal**) with **Node.js** backend services.
- Collaborated on **Vue.js-to-React** migration for admin dashboards, ensuring API compatibility.

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## EDUCATION

### Bachelor of Science in Computer Science

City University of Hong Kong • Hong Kong • 2017

- **Dean's List:** 3 semesters (2015–2017) for top 10% academic performance
  - **Teaching Assistant:** Algorithms (Fall 2016) – Conducted weekly workshops and graded assignments for 50+ students
  - **Hackathon Winner:** Built a React-based campus food delivery app with Node.js + Firebase (1st place, 2016)
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## PROJECT

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### JHipster

[github.com/jhipster/generator-jhipster](https://github.com/jhipster/generator-jhipster) · June 2021 – February 2022

- Architected and extended **Spring Boot microservices** within the JHipster ecosystem, implementing scalable APIs for enterprise-level applications.
- Integrated **OAuth2** and **JWT-based authentication**, enhancing security compliance across multiple services.
- Refactored **legacy monolith services** into **modular microservices**, reducing deployment time and improving system resilience by 40%.

### Maybe Finance

[github.com/maybe-finance/maybe](https://github.com/maybe-finance/maybe) · August 2020 – March 2021

- Contributed to the development of a personal finance and wealth management application, focusing on frontend components using **React** and **Next.js**.
  - Enhanced user interfaces for financial dashboards, ensuring responsive design and intuitive user experience across devices.
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