

# Nicholas Chow

Senior Software Engineer | Java/Spring Boot | React | Enterprise Systems

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## SUMMARY

Senior full-stack software engineer with 8+ years of experience building enterprise Java/Spring Boot systems across financial services, ratings, banking, and IoT platforms. Strong backend focus with hands-on frontend experience in React, Angular, and Vue. Experienced in modernizing analyst and financial-planning workflows, designing APIs and microservices, improving system reliability, and working across distributed, cloud-native environments. Known for ownership, pragmatic technical trade-offs, and driving delivery across backend, frontend, and platform boundaries.

## SKILLS

BACKEND	Java, Spring Boot, REST APIs, Microservices, API Design, Distributed Systems, Go
FRONTEND	React, TypeScript, Angular, Vue
DATA & MESSAGING	PostgreSQL, Oracle DB, MariaDB, MySQL, Redis, Kafka
CLOUD & DELIVERY	AWS, Pivotal Cloud Foundry, GCP App Engine, Jenkins, GitLab, Nexus IQ, Fortify, SonarQube

## EXPERIENCE

 **S&P Global, Ratings** — Senior Software Engineer Oct 2023 - Present  
Singapore

- Built and enhanced enterprise workflow applications used by ratings analysts, focusing on streamlining analyst productivity and modernizing internal platforms.
- Delivered full-stack features across Java/Spring Boot services and React interfaces, integrating with PostgreSQL and Oracle-backed systems.
- Assessed existing products and workflows to identify modernization opportunities, performance bottlenecks, and usability improvements.
- Collaborated with product, business, and engineering stakeholders to translate complex analyst workflows into maintainable application features.
- Improved code quality and delivery confidence through code reviews, debugging, refactoring, and pragmatic technical trade-off decisions.
- Tech: Java, Spring Boot, React, Angular, PostgreSQL, Oracle DB.

 **DXC Technology** — Senior Software Engineer Sep 2023 - Oct 2023  
Singapore

- Government client engagement: developed backend APIs and improved documentation for existing interfaces with supplementary information (queue and batch-job frequencies, etc.).
- Tech: Java, Spring, Oracle DB, Struts, Tomcat, Jenkins, NexusIQ, SonarQube.

 **DBS Bank / Optimum Solutions** — Senior Software Engineer Dec 2020 - Apr 2023  
Singapore

- Designed and delivered backend features for NAV Planner, DBS's financial-planning platform, supporting customer-facing financial-planning workflows.
- Built and maintained services in a distributed, multi-instance, multi-region cloud-native environment on Pivotal Cloud Foundry.
- Designed and implemented backend APIs with Java/Spring Boot, integrating with MariaDB, Redis, Kafka, and internal banking platforms.
- Rewrote selected Java web microservices in Go using Gin, Viper, GORM, and Redis as part of service-modernization efforts.
- Explored JWT-based API authentication with Auth0 and deployment patterns on GCP App Engine.
- Tech: Java, Spring Boot, Go, MariaDB, Redis, Kafka, Pivotal Cloud Foundry, Jenkins, Nexus IQ, Fortify.

 **Wen Consulting** — Software Engineer Jan 2020 - Nov 2020  
Singapore

- Designed and implemented a backend system serving as the new master data for CKA & CAR (Customer Knowledge Assessment & Customer Account Review) for a major bank in Singapore – a prerequisite for providing financial advice.
- Five Java/Spring Boot microservices supporting multiple downstream applications.
- Tech: Spring, MariaDB, Kafka, Pivotal Cloud Foundry, Vue.js.



**Robert Bosch (SEA)** – Software Engineer

Jun 2017 – Jan 2020

Singapore

- Full-stack web development to enable billing for the internal Bosch IoT cloud – invoice and report management for consumers and service owners.
- Delivered Spring Boot apps to Pivotal Cloud Foundry with blue/green deployments.
- Built a revenue dashboard aggregating totals across all Bosch IoT cloud services – a small Flask app deployed to PCF via the Python buildpack.
- Tech: Spring, Angular, MySQL, Pivotal Cloud Foundry, Jenkins, GitLab, JFrog Artifactory.

## EDUCATION

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**Singapore University of Social Sciences (SUSS)**

Jan 2017 – Jun 2020

BSc in Information and Communication Technology



**Singapore Polytechnic**

2010 – 2013

Diploma in Biomedical Sciences

## PROJECTS

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### Homelab / Self-hosted Infrastructure

Operate a Docker-based homelab running media, monitoring, automation, and smart-home services. Experience with reverse proxies, Cloudflare Tunnel, Traefik, Grafana, Home Assistant, and Linux/macOS server administration.

Docker

Traefik

Cloudflare

Grafana

Home Assistant

Linux

macOS