




Fang Tian, Tan

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6+ years of experience | Vue, React, TypeScript, NodeJS, NestJS, PostgreSQL, and Microservices

Tech Stack

- **Frontend:** Vue, React, NextJS, TypeScript, Redux, Tailwind CSS
- **Backend:** Java (Spring Boot), Node.js, NestJS, REST APIs, Microservices, JWT, OAuth2
- **Cloud & DevOps:** AWS, Terraform, Serverless Framework, Docker, Kubernetes, CI/CD (GitHub Actions, GoCD), Grafana, Git
- **Database:** PostgreSQL, MySQL
- **Testing & Tools:** Jest, Cucumber, Cypress
- **Data Analytics & AI:** Power BI, SQL, Python (Pandas, NumPy), workflow automation (n8n), early-stage LLM prototyping (RAG/MCP)
- **Other:** Agile/Scrum

Certifications

Certified ScrumMaster®
Scrum Alliance

Advanced Certified Scrum Developer®
Scrum Alliance

User Experience Design Bootcamp
Vertical Institute

WSQ Data Science Bootcamp
Vertical Institute

Data Analytics for IT Professionals
National University of Singapore

Education

Nanyang Technological University, Singapore
B.Eng (Information Engineering & Media)
2014 – 2018

Languages

English, Chinese (Mandarin)

Professional Experience

- GovTech Singapore**
Software Engineer

Sep 2019 – Dec 2024

Worked across multiple teams to deliver scalable digital platforms, data systems, and dashboards under various national-level initiatives.
- GovRewards – Rewards Platform | Recipient of One Public Service Award**

2023–2024

Founding Engineer | NestJS, AWS, PostgreSQL
 - Architected a multi-tenant rewards platform using NestJS, enabling configurable, agency-specific modules while maintaining a shared core system.
 - Acted as the primary technical liaison for 10,000+ government users, resolving integration challenges and driving platform stability and adoption.
 - Drove adoption across 10+ agencies by leading technical presentations and stakeholder discussions.
 - Influenced product roadmap by translating user feedback and agency requirements into prioritized features with technical feasibility.
- Integrated Workpass System – Work Visa Application and Processing**

2019–2023

Full Stack Developer | VueJS, NodeJS, Java, Redis, Microservices
 - Shipped full-stack features using VueJS and NodeJS, modernising UI/UX and streamlining visa processing across 3 major releases.
 - Translated evolving policy into system workflows, including pass eligibility logic, supporting national management of 1.6M+ work pass holders.
 - Implemented SAML mock service for efficient local testing, integrating SingPass and CorpPass for secure government-standard authentication.
 - Designed Redis caching solution, significantly reducing database load and improving response times for frequently accessed information.
 - Elevated code quality through refactoring and unit testing, achieving 98% test coverage and enabling seamless CI/CD integration.
 - Developed reusable component libraries that improved development efficiency and ensured UI consistency across project modules.
 - Resolved production issues for policy-critical systems as L2/L3 support, conducting root cause analysis and implementing preventive measures to reduce incidents.
- Manpower Data Analytics – Reporting and Analytics Platform**

2022–2023

Data Analyst | Power BI, SQL
 - Designed and implemented Power BI dashboards that transformed raw data into actionable insights, enabling officers to identify trends and reporting capabilities.
 - Collaborated with officers during UAT to refine dashboard workflows and incorporate feedback improving usability.
 - Optimised complex SQL queries accessing 20+ tables with millions of records, strategically balancing SQL and Power BI transformations to enhance dashboard performance.
- AccessCode – Dormitory Covid Tracking | Recipient of GovTech Impact Award**

2020

Sole Frontend Developer | React, GraphQL
 - Built and launched real-time COVID-19 dormitory dashboard in 3 months using React/GraphQL with UX-driven design, enabling safe movement tracking of 300K+ workers.
 - Delivered under high-pressure timelines; solution recognized with GovTech Impact Award 2020 for its contribution to public health response.
- BNP Paribas**
Programmer Analyst

Aug 2018 – Sep 2019

- Translated wireframes into responsive, user-centric Angular interfaces through close collaboration with UX designers and business leads.
 - Improved internal platform workflows and usability by iterating on designs and facilitating UAT across global teams.
 - Documented technical specifications and operational workflows to support production rollout and ensure long-term maintainability.
- Apple Singapore**
Process Automation Intern

Jan 2017 – Jun 2017

- Automated recurring reporting tasks using AppleScript and Excel macros, reducing manual effort and minimizing errors.
 - Built interactive KPI dashboards and resolved inefficiencies in reporting workflows, accelerating turnaround for daily and weekly metrics across regional teams.