Fang Tian, Tan

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6+ years of experience | Vue, React, TypeScript, CI/CD | Strong in building scalable, user-centric web apps

PROFILE

- Software Engineer with 6+ years of experience building scalable digital platforms, data-driven applications, and cross-agency solutions for government and enterprise environments.

- Strong communicator and collaborator, skilled at translating business needs into technical solutions and aligning stakeholders across functions.

- Fast learner with a bias for action — excels in new environments and delivers quickly with clear direction

TECH STACK

- **Frontend:** Vue, React, Next.js, TypeScript, Redux, Tailwind CSS, Bootstrap

- **Backend:** Java (Spring Boot), Node.js, REST APIs, Microservices

- **Cloud & DevOps:** AWS, Terraform, Docker, CI/CD, GoCD, Git

- **Database:** PostgreSQL, MySQL

- **Testing & Tools:** Jest, Cucumber, Cypress, React Testing Library, Storybook, Figma, GitLab

- **Security:** JWT, OAuth2

- **Other:** Agile/Scrum

CORE STRENGTHS

- Project delivery & planning

- Stakeholder collaboration

- Data-informed decisions

- Clear technical communication

- Fast learner, tech adaptable

CERTIFICATIONS

- Certified ScrumMaster® (CSM)

- Advanced Certified Scrum Developer® (A-CSD)

EDUCATION

Nanyang Technological University
B.Eng (Information Engineering and Media)
2014 – 2018

LANGUAGES

- **English** – Fluent

- **Chinese (Mandarin)** – Fluent

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   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.
- Led technical presentations and outreach, securing partnerships with 10 new agencies through solution demos and stakeholder discussions.
- Influenced the product roadmap by translating user feedback and agency requirements into prioritized features that balanced business value with technical feasibility.

Integrated Workpass System – Work Visa Application and Processing   2019–2023

Full Stack Developer | VueJS, NodeJS, Java, Redis, Microservices

- Enhanced WorkPass Portal using VueJS and NodeJS, modernising the UI/UX and streamlining visa processing across 3 major releases.
- Implemented SAML mock service for efficient local testing, integrating SingPass and CorpPass for secure government-standard authentication.
- Implemented 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.
- Provided L2/L3 production 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 application and payment data into actionable insights, enabling officers to identify trends and reconcile financial discrepancies.
- Collaborated with officers during UAT to refine dashboard workflows and incorporate feedback that improved usability and reporting capabilities.
- Optimised complex SQL queries accessing 20+ tables with millions of records, strategically balancing SQL and Power BI transformations to enhance dashboard performance.
- Created documentation and conducted training sessions that enabled officers to independently generate reports and analyse data without technical assistance.

COVID-19 Dashboard – Dormitory Outbreak Tracking   2020 (6 months)

Sole Frontend Developer | React, GraphQL

- Developed and maintained an award-winning real-time dashboard to track COVID-19 dormitory outbreaks during the pandemic.
- Delivered under high-pressure timelines; solution was recognized with the GovTech Impact Award 2020 for its contribution to public health response.

BNP Paribas

Programmer Analyst   Aug 2018 – Sep 2019

- Implemented user engagement features that enhanced overall platform functionality and improved user experience across key touchpoints.
- Led technical migration from a legacy search portal to Angular 5.0, resulting in a modernized UI and significantly improved search performance.
- Collaborated with Business Analysts and Product Owners to convert user feedback into actionable technical requirements, directly informing product roadmap planning.

Apple Singapore

Process Automation Intern   *Jan 2017 – Jun 2017*

- Automated supply chain reporting workflows using AppleScript and Excel macros, significantly reducing manual processing.
- Partnered with regional teams to identify inefficiencies and implement scalable reporting solutions.