

Elton Quek

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PROFESSIONAL SUMMARY

Results-driven Senior Frontend Developer with 7+ years of experience building high-performance web applications across fintech, healthcare tech, and government platforms. Proven expertise in ReactJS/TypeScript ecosystem with strong knowledge of state management patterns (Redux) and responsive design. Track record of delivering production-grade applications serving diverse clients from desktop to mobile, with experience in real-time dashboards.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, HTML5, CSS3, C#, Java
- **Frameworks:** ReactJS, NextJS, Redux, NodeJS, Jest, Micronaut, Spring, JUnit, Mockito
- **Databases:** MongoDB, MySQL, Oracle SQL, MSSQL
- **Platforms:** Git, Docker, GitLab CI/CD, Linux, SonarQube, Azure DevOps, Unity
- **Others:** Responsive Web Design, WebSockets, REST APIs, CI/CD, TDD, UI/UX

WORK EXPERIENCE

Agency for Science, Technology and Research (A*STAR) Jul 2023 – Present

Senior Research Engineer I (*Senior Software Engineer*)

Omni-channel Conversational AI (OCAI) - AI ChatBot Platform

- **Developed a real-time ReactJS dashboard with WebSockets** support for live logs, metrics, and user feedback.
- **Implemented server-side filtering, pagination, and responsive design** for desktop and mobile web.
- **Integrated Twilio APIs** to automate outbound telesales voice calls with AI chatbot.
- **Automated builds and deployment with Docker and GitLab CI/CD**, enabling agile delivery.

Removable Partial Dentures (RPD) - 3D Dental Application

- **Co-developed RPD application** with National Dental Centre Singapore, a program that processes scanned jaw models and produces printable 3D denture models
- **Built 3D modeling tool using Unity/C#** for customization and 3D printing workflows
- **Designed responsive UI controls** for dental sculpting and adjustment
- **Engineered backward-compatible MySQL schema** to retain legacy compatibility while extending features

Engineering Culture Initiatives

- **Proposed GitHub Copilot adoption plan** (cost, security, governance) to management.
- **Hosted brown bag session** on practical GitHub Copilot usage for 150+ participants.

Credit Suisse Aug 2021 – Jun 2023

Exempt Non-officer (*Software Engineer*)

Enhanced Client Periodic Review (ECPR) - Regulatory Risk Platform

- **Developed ECPR microservice** to automate client reviews and scan for risk indicators and anomalies for auditing purposes.
- **Applied test-driven development** using Java, JUnit, and Mockito in an Agile environment.
- **Managed cross-team API integrations** with international teams, defining data contracts.
- **Enhanced code quality** by increasing SonarQube coverage from 70% to 85% and reducing code duplication by 80%.

CrimsonLogic Pte Ltd

Aug 2017 – Jul 2021

Senior Product Engineer (*Senior Software Engineer*)

Business Licensing System (BLS)

- **Engaged in Agile software development lifecycle**, using Azure DevOps to facilitate sprint reviews, daily scrum meetings, backlog refinement, and user story development process.
- **Led development of configurable form engine** using ReactJS and .NET Core, enabling no-deploy onboarding of 30+ forms in 2 weeks.
- **Designed modular system architecture** with reusable frontend components to support concurrent workflows and form field reusability.
- **Mentored three junior developers** and performed regular code reviews to maintain quality.

Framework Development & Pre-sales Support

- **Developed a ReactJS baseline template** with extensible form and display components, adopted by five projects.
- **Developed and launched a QR-based autofill form application** showcased at **Caribbean FutureScape 2019**.

Culture & Training

- **Instructed a 4-day internal coding bootcamp** for fresh graduates on MVC, React, and Bootstrap.
- **Organized 6 tech-sharing sessions** with senior architects and managed the **2019 Dinner and Dance** event for 500 staff.

LEADERSHIP & IMPACT

- **Team Leadership:** Mentored 3 junior developers, led Agile ceremonies and cross-team API integrations.
- **Technical Innovation:** Created reusable ReactJS template adopted by 5 projects, established CI/CD practices.
- **Knowledge Sharing:** Conducted 4-day coding bootcamp on React and MVC, brown bag sharing for 150+ participants on practical GitHub Copilot usage.
- **Culture Building:** Organized tech sessions and company events, proposed GitHub Copilot adoption to management.

EDUCATION

Nanyang Technological University

Aug 2013 – Jun 2017

Business and Computing Double Degree Programme

Bachelor of Engineering (Computer Science), Second Class (Upper) Honours

Bachelor of Business (Information Technology), Second Class (Upper) Honours

CERTIFICATION

Certified ScrumMaster

Sep 2022

Scrum Alliance (Credential ID 1650880)

Managing Digital Products

Dec 2024

Singapore Computer Society & National University of Singapore (Serial No.: 89440709)

ADDITIONAL SKILLS

Languages: Fluent in both written and spoken English and Mandarin.