

Neo Tian How

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EDUCATION

Singapore Institute of Technology and University of Glasgow

April 2025

Bachelor of Science with Honours in Computing Science | GPA: 4.68/5

Modules: Data Structures and Algorithms, Object Oriented Programming, Web Programming, Database Systems, Cloud & Distributed Computing, Professional Software Development, Cyber Security, Data Analytics, Machine Learning.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C, C++, C#, Dart, Kotlin, PHP, R, SQL, HTML, CSS, Bash

Databases: MySQL, Microsoft SQL Server, SQLite, Firebase, Supabase, Redis, MongoDB, DynamoDB, H2, Chroma

Technologies: Git, Docker, Kubernetes, AWS, GCP, Node.js, React.js, Angular, Vue.js, Spring Boot, J2EE, ASP.NET, Flutter, CodeIgniter, Apache Kafka, WebSocket, RabbitMQ, Nginx, Skaffold, Postman, Oauth2, JWT, GraphQL, CI/CD

WORK EXPERIENCES

CrimsonLogic

June 2025 - Present

Software Engineer | Full Time

- Developed truck appointment and capacity management modules for the new Port Community System project in Antwerp, improving truck scheduling and reducing congestion during peak terminal operations.
- Designed and executed 500 UAT test cases, identified and resolved 40 defects, including a concurrency bug that allowed multiple hauliers to book the last remaining slot, preventing overbooking.
- Led the setup of AI-assisted development workflows, including Cursor rules and Azure DevOps code review pipelines aligned with product standards, improving consistency and reducing feature delivery time by 15–20%.

PSA International

Sep 2024 – May 2025

Software Engineer | Internship

- Automated migration of 50 Kafka topics and 150 consumer groups with reusable batch scripts, ensuring accurate replication of configurations (partitioning, retention policies, ACLs) across environments.
- Designed and executed 1,000+ test cases for enterprise systems, Global PortNet and DigitalPort, identifying critical defects and collaborating with developers to resolve issues and ensure a stable production release.
- Led design solutioning by collaborating with designers to translate client requirements into 60+ intuitive Figma UI screens, and developed the frontend in Angular integrated with backend services for shipping lines and hauliers.

PROJECTS

PSA CodeOptics (*Angular, Spring Boot, Spring AI, Ollama, Qwen-2.5-Coder, Chroma, H2-Database, JasperReports*)

- Implemented an interactive dashboard for analyzing PSA GitLab repositories, providing real-time visibility into branch activity such as merged, unmerged, active and stale branches to reduce manual tracking and oversight.
- Orchestrated Qwen-2.5-Coder (LLM) to generate natural language summaries of branch context and code changes, using preprocessed and chunked code diffs with commit messages to help developers understand branch purpose.
- Automated AI-based code reviews on GitLab merge requests via webhook, using custom code rules aligned with PSA coding standards to detect bugs, suggest improvements, and evaluate code quality and style.
- Built a feedback filtering system that stores downvoted code review comments as vector embeddings in Chroma, allowing the model to improve review quality over time based on developer preferences.

Ticket Vibe (*Docker, Kubernetes, React.js, WebSocket, RabbitMQ, Node.js, Redis, MongoDB, Cloudflare, PayPal*)

- Developed a microservice-based ticketing platform with a virtual queue system to manage high concurrent traffic, ensuring fair access and scalability through GCP Kubernetes horizontal pod scaling based on CPU metrics.
- Optimized security by implementing rate limiting, CAPTCHA, and Cloudflare protection, preventing scalping bots and mitigating DDoS attacks under stress testing with 10,000 simulated requests per minute.