

Shan Kai Tiong

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Full Stack Software Engineer with 1 year of professional experience, interested in full-stack frontend development. Likes collaboration, learns quickly and highly adaptable.

SKILLS

Programming Languages: TypeScript, JavaScript, Java, Python, SQL, CSS, HTML

Technologies: React, Next.js, Node, Spring Boot, Flask, Django, GraphQL, TailwindCSS

Databases: PostgreSQL, MongoDB, DynamoDB

Others: DataDog, Jenkins, Cypress, TestCafe, Jira, Git, TanStack, Vite

EXPERIENCE

Software Engineer

Jun 2023- Present

Bluejay Finance, Singapore

Full-stack developer for a start-up, built features for a DApp for stablecoin investments.

- Built and shipped a new onboarding flow that halved registration and KYC time.
- Built a portfolio feature to allow users to monitor investment returns using on-chain and database data with TanStack Query and ethers.
- Optimized web application for SEO by ensuring semantic design and appropriate meta headers.
- Integrated Ethereum smart contract functions in web application.
- Built REST APIs using serverless framework, AWS Lambda, S3 and DynamoDB.
- Maintained GitHub actions pipeline for building and testing.

Software Developer II

Sep 2022 - Mar 2023

Indeed, Singapore

Platform developer for the Japan employer team, building new features and working on a high-traffic job posting and management web application.

- Implemented an end-to-end feature for employee interview booking.
- Collaborated with cross-functional teams to discuss workarounds for task blockers.
- Suggested team process improvements in task creation templates that were established.
- Organised and led a bug bash and follow-up meetings to ensure production readiness.
- Improved accessibility (a11y) of web applications using best practices.
- Maintained code integrity through rigorous unit and integration testing using Jest, Junit and TestCafe, which reduced potential uncaught issues.
- Handled on-call bug investigations and monitored performance metrics on DataDog.

Software Engineering Intern

May 2021 - Aug 2021

Indeed, Singapore

Worked in the International Payments team, enhancing application features for Indeed's payment platform.

- Internationalized Indeed's global payment using i18n best practices.
- Ensured high code quality standards using Jest and React testing library.
- Established a Jenkins CI/CD pipeline to streamline the merging of translation files, improving translation workflow efficiency.
- Fostered effective cross-functional collaboration by liaising with external and internal stakeholders to facilitate third-party component integration.

Information Technology Intern

May 2020 - Aug 2020

DHL Express, Singapore

Worked in the product delivery team, gathered requirements from internal clients and built applications to improve the efficiency of company processes.

- Implemented a SMS payment notification script using Python, reducing manual workload for the Payments team.
- Built a dynamic R Shiny dashboard that provided analysis on Customer Service chat, which was widely adopted across the organization.
- Developed a Excel Macro using VBA to generate billing reports, which saved the billing team 4 hours per report and improved overall team productivity.
- Contributed to the successful production of a customer web application utilizing ASP.NET Razor Pages and Bootstrap.
- Carried out user requirement gathering and acceptance testing.

EDUCATION

Bachelor of Engineering (B.E.) - Computer Science Aug 2022
Singapore University of Technology and Design (SUTD)

- Honors with Highest Distinction (4.48/5)
- Part of SUTD-SMU dual degree scholarship programme

Bachelor of Business Administration (B.B.A.) - Business Management Aug 2022
Singapore Management University (SMU)

- Honors with High Distinction (3.66/4)

PROJECTS

Visitor Management System Dec 2023 - Present
Concorde Security Client Project

- Working with 2 others to build a visitor management dashboard using React.js, Vite, Python Django and PostgreSQL.
- Participated in task scoping and architecture planning.

Net Worth Tracker (Worthy) Sep 2023 - Present
Personal Project

- Building a net worth tracking app using Next.js as a full stack framework.
- App uses Clerk authentication, Prisma ORM with MongoDB and Next.js server actions for type-safety.

iMatrix Operations Ecosystem Jan 2022 - Aug 2022
SUTD Final Year Project

- Worked with 5 others to build a web dashboard and IoT infrastructure to digitalise incident reporting, rostering and gate management using React, Golang, gRPC, Envoy and MySQL.
- Contributed heavily in frontend development and system architecture design.

OTHER INFORMATION

Nationality: Singaporean

Languages: English, Mandarin

Volunteering Activities:

- **President** (Uni-Y Community Service Club) 2022
- **Personal Development Director** (Uni-Y Community Service Club) 2021