Edgar Russell Teong Kai Han

www.edgr.live | github.com/safarinexus | edgargarteong@gmail.com | linkedin.com/in/edgarteong | (+65) 97379450

EXPERIENCE

Climate Impact X — Feb. 2025 – Present
Software Engineer — *Singapore*

- I am on the engineering team at CIX, a global carbon credit exchange jointly held by DBS, SGX, Mizuho, Standard Chartered and Temasek, where I build for and maintain CIX's main platform
- Work on enhancing platform stability by identifying, troubleshooting, and resolving critical bugs and infrastructure issues with both Java Spring Boot on the backend and React, Vite and TypeScript on the frontend.
- Collaborate with QA, App Support Engineers, and Business Analysts to troubleshoot bugs, clarify feature requirements, improve UX and implement scalable solutions, ensuring long-term platform reliability and performance.
- Conduct root cause analysis and implemented preventive measures to minimize recurring issues, improving overall system efficiency.
- Technologies: **Java/Spring Boot, React/Vite/TypeScript, JUnit, PostgreSQL, MongoDB, Azure**

Central Provident Fund Board (CPFB) — Jan. 2025 – Feb. 2025
Software Engineer Intern — *Singapore*

- Was on the Frontier Products Team within the Business Incubator & Accelerator Department, where I worked on docCentral, a tool that automates filling in of extensive government documents and contracts from inputs from various sources, for use across the whole of government
- Developed tools to boost team productivity, including a serverless API that auto-populates team Notion dashboard and Telegram channel from product contact form, boosting team productivity by 100%
- Built new features for the product, such as an admin page with a built-in dashboard, and an express product health monitoring microservice, and aided in debugging and fixing critical issues, improving product reliability and stability by 40%
- Led the adoption of Jest unit testing on the codebase, and wrote unit tests, improving code coverage to 80%
- Technologies: **Next.js, Node/Express, Django/Python, AWS, GitLab, MongoDB, Jest**

Government Technology Agency (GovTech) — Jan. 2023
Software Engineer Intern — *Singapore*

- Worked on the Tech iOSH Refresh Project aimed at providing a more seamless portal for more than 2000 safety and health professionals, where I developed UI components, resulting in a 30% reduction in code duplication and a 25% increase in usability scores from user testing sessions
- Technologies: **React, Figma, HTML/CSS**

Schneider Electric — Aug. 2022 – Dec. 2022
Data Analyst Intern — *Singapore*

- Was part of the Internal Audit team, where I led data migration and adoption of version-control with GitHub to enable improved workflow tracking and data retrieval across 300 different SQL scripts
- Automated complex SQL data-retrieval works by creating a script bank for use by the entire team, resulting in a 30% reduction in data processing time across the team.
- Developed machine learning algorithm to automate fraud detection for each internal audit cycle with an 80% effectiveness
- Technologies: **SQL, Git, Python, Seaborn, Sci-kit Learn, Pandas**

Accenture — June. 2022 – Aug. 2022
Software Development Engineer in Test Intern — *Singapore*

- Developed testing tools and performed UAT Testing for iHiS Billing Transform project, aimed at digitally transforming the nationwide healthcare billing solution, where I used Python and SOAP APIs to test the platform and develop testing tools and scripts. I identified over 60 critical defects and reduced post-release issues by 30%
- Technologies: **Python, SOAP APIs**

EY — Dec. 2021 – Feb. 2022
Audit & Assurance Intern — *Singapore*

PROJECTS

Portfolio Website | *Next.js, React.js, TypeScript, TailwindCSS, GSAP, Vercel, MDX*   Oct. 2024
- My own personal portfolio website made from scratch, showcasing my personality, projects and experience.
- Built and designed entirely by me.

Blog API | *Node, React, TailwindCSS, PostgreSQL + Prisma, Railway, Vercel, Supabase*   Aug. 2024
- Personal project of a Blog API with admin and viewer frontends, made from scratch.
- User authentication with JSON Web Tokens, as well as full stack deployment using Railway for the backend and Vercel for frontends

TOP Projects | *React, PostgreSQL, Prisma, Node.js, Express.js, Webpack, RESTful API*   Feb. 2024 – Sept. 2024
- A collection full-stack projects developed in my undertaking of "The Odin Project" where I self-taught full-stack development
- Projects include frontend webs app such as a weather app and React shopping page, and full-stack web apps such as an inventory site and a RESTful blog API. All built from scratch.

TECHNICAL SKILLS AND INTERESTS

Languages: **TypeScript/JavaScript**, **Node.js**, **Python**, **Java**, **Go**, **SQL (PostgreSQL + Prisma)**, C/C++, HTML/CSS, R, PHP
Frameworks: **Next.js**, **React.js**, **Express.js**, **Spring Boot**, **TailwindCSS**, **Jest**, **JUnit**, GSAP Animation Library
Developer Tools: **Git/GitHub/GitLab**, **AWS**, **Azure**, **Webpack**, **Supabase**, **Vercel**, **MongoDB**, Figma
Libraries: pandas, NumPy, Matplotlib, seaborn, sci-kit learn
Interests: I'm a computer nerd, I'm a coffee nerd, I'm a mechanical keyboard nerd, I'm a book nerd, I'm a film nerd

EDUCATION

Singapore Management University   Aug. 2020 – Dec. 2024
Bachelor of Accountancy with Second Major in Information Systems   *Singapore*
- **Relevant Coursework:** Web App Development, Computational Thinking (Data Structures & Algorithms), Software Engineering, Data Management
- **Semester Abroad/Exchange:** University of St. Gallen, Switzerland (Fall 2023)