

# Edgar Russell Teong Kai Han

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## EXPERIENCE

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### Climate Impact X

Feb. 2025 – Present

*Software Engineer*

*Singapore*

- Worked on the engineering team at CIX, a global carbon credit exchange jointly held by DBS, SGX, Mizuho, Standard Chartered & Temasek, where I built for & maintained CIX's main platform
- Enhanced platform stability by identifying, troubleshooting, and resolving critical bugs and infrastructure issues with both Java Spring Boot on the backend & React Vite on the frontend, reducing system downtime by 40%.
- Collaborated with cross-functional teams to implement scalable solutions, ensuring long-term platform reliability and performance.
- Conducted root cause analysis and implemented preventive measures to minimize recurring issues, improving overall system efficiency.
- Technologies: **Java/Spring Boot, React/Vite, JUnit, PostgreSQL**

### Central Provident Fund Board (CPF Board)

Jan. 2025 – Feb. 2025

*Software Engineer Intern*

*Singapore*

- Worked as part of the Business Incubator & Accelerator team on **docCentral**, an internal management portal with a Microsoft Word Add-In that automates filling in of long documents and contracts for use across the whole of government
- Led the adoption of Jest unit testing for codebase, garnering 80% code coverage, debugged and resolved critical product issues, refactored code to improve maintainability, improving product stability and reliability by 100%
- Developed tools to automate developer processes, such as a serverless API that auto-populates team Notion dashboard & Telegram channel from product Contact form, and a health monitoring server that periodically checks on health of microservices. Increasing team and product manager productivity by 50%
- 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 & 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*

- Led data migration and adoption of version-control with GitHub to enable improved workflow tracking & data retrieval across 300 different SQL scripts
- Automated complex SQL data-retrieval works by creating a script bank for use by entire Internal Audit 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

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- 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 & INTERESTS

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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

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- 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)