Edgar Russell Teong Kai Han

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EXPERIENCE

Central Provident Fund Board (CPFB)
Jan. 2023 – Present

Software Engineer Intern — *Singapore*

- Worked as part of the Business Incubator & Accelerator team 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
- Adopted Jest unit testing for codebase, wrote 100% code coverage unit tests, debugged and resolved critical product issues, refactored code to improve maintainability, improving product stability and reliability by 100%
- Enhanced team productivity by developing automation tools, such as a serverless API to automate task creation to Notion and Telegram via FormSG webhooks and a health monitoring express webhook that tracks product microservice health, compiles reports, and integrates with Telegram and MongoDB.
- Technologies: **Next.js, Node/Express, Python/Django, AWS, 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

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

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**, **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)