Edgar Russell Teong Kai Han

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EDUCATION

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

EXPERIENCE

Central Provident Fund Board (CPFB)   Jan. 2025 - Present
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 different agencies of the Singapore Government, increasing monthly usage from 60k to 80k
- Debugged and resolved critical product issues, refactored code to improve maintainability, and implemented unit and integration tests to enhance reliability and test coverage by 100%
- Developed a serverless API that receives requests from FormSG webhook to automate task creation on Notion dashboard & Telegram channel with the use of Plumber, increasing team and product manager productivity by 20%
- Technologies: **GitLab, AWS, Next.js, Node.js, Express.js, Python + Django**

Government Technology Agency (GovTech)   Jan. 2023
Software Engineer Intern   *Singapore*
- Worked on the Tech iOSH Refresh Project aimed at providing a more seamless registration portal for more than 2000 safety and health professionals, where I developed & standardized 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
- Developed test scripts and templates for testing cycle through SOAP APIs and Python, where I identified and documented over 60 critical defects, improving overall software quality and reducing 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*   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

File Uploader | *Node/Express, PostgreSQL + Prisma, Railway, Supabase*   Aug. 2024
- Personal project of a file storage websites, complete with user auth and folder hierarchy system.
- Made with Node.js and Express Views, with Prisma + Postgres database and Supabase CDN, built from scratch.

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**, **SQL (PostgreSQL + Prisma)**, **Java**, C/C++, HTML/CSS, R, PHP

Frameworks: **Next.js**, **React.js**, **Express.js**, **Spring Boot**, **TailwindCSS**, **GSAP Animation Library**, Jest

Developer Tools: **Git/GitHub/GitLab**, **AWS**, **Webpack**, **Supabase**, **Vercel**, Figma, SAP, Redis, Heroku, Railway, Koyeb

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