

# Edgar Russell Teong Kai Han

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## EDUCATION

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- Singapore Management University** Aug. 2020 – Present  
*Bachelor of Accountancy, Computer Science* Singapore
- **Relevant Coursework:** Web App Development, Data Structures, Software Engineering, Data Management
- University of St. Gallen** Sept. 2023 – Dec. 2023  
*Singapore Universities Student Exchange Programme, Fall Semester 2023* St. Gallen, Switzerland

## EXPERIENCE

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- 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
  - Developed & Standardized UI components, which led to a 30% reduction in code duplication and improved code maintainability
  - Improved user experience by implementing user-centered design principles in Figma, resulting in 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**

## PROJECTS

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- 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* 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

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**Languages:** Java, Python, C/C++, SQL (Postgres + Prisma), TypeScript/JavaScript, Node.js, HTML/CSS, R, PHP

**Frameworks:** React, Express, Jest, Vitest, SuperTest, TailwindCSS, GSAP, Next.js

**Developer Tools:** Git, Figma, SAP, Redis, Webpack, Vercel, 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