

ELROY CHUA MING XUAN

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Full Stack Developer with over a year of hands-on experience in PostgreSQL, Express.js, React and Node.js stack. Constantly curious, I thrive in diverse project environments and am committed to ensuring company success

Work Experience

Ensign InfoSecurity

Full Stack Software Engineer, Intern

Singapore
Aug 2023- Mar 2024

- Leading a tech stack revamp of an internal CRUD application focused on IP address monitoring
- Delivered a data visualization application for monitoring global threat analysis
- Collaborated with Ensign Labs teams, conducting user research and design iterations based on feedback
- Stack: PostgreSQL, Express.js, Joi, Ky, Jest, React, TailwindCSS, D3.js, JavaScript, TypeScript, Docker, and AWS

GetPaid SG

Full Stack Developer, Intern

Singapore
Nov 2022 - July 2023

- Resolved user-reported frontend issues, improving GetPaid's web portal user experience
- Designed APIs for data handling in user authentication, new user registration, and recurring user management, achieving a 75% reduction in user onboarding time
- Oversaw regression testing and implemented ClickUp automation, leading to a 71.43% time reduction in resolving issues
- Stack: PostgreSQL, Prisma, GraphQL, React, Next.js, Chakra UI, TypeScript

GetPaid SG

Software Engineer, Intern

Singapore
Apr 2022 - Nov 2022

- Led transition from WordPress to a Vercel-hosted React-based app, saving operational costs
- Contributed to regression testing during development, accelerating integration speed with partner APIs
- Delivered a CMS system with Hygraph, reducing blog post publication time by 66.67%

Education

University of Wollongong - SIMGE

Bachelors of Computer Science, Big Data

Oct 2021 - Mar 2024
Grade: Distinction

Projects

Edutech web app

Jul 2023 - Mar 2024

- Leading design and implementation of frontend infrastructure of an edutech application, focusing on serving digitized exam practice papers to secondary students in Singapore
- Stack: Azure APIM, Azure Functions, Next.js, Supabase, Opensearch, CosmosDB, Github Actions

QuantumSecureVote web app

Oct 2023 - Feb 2024

- Designing an e-voting system in a team of five using post-quantum RingCT technology for our final year project, positively influencing wider blockchain ecosystems by improving security and sustainability
- Stack: React, Material UI, D3.js, Next.js, Hyperledger Fabric, TypeScript, MatRiCT+

Cinema booking app: GoldenRizz [[repo link](#) | [website link](#)]

Apr 2023 - May 2023

- Collaborated with a team of six developing a comprehensive cinema booking application, achieving 90% for the Software Methodologies Module
- Stack: MongoDB, Mongoose, Express, React, Next.js, AWS EC2, Vercel, JavaScript

Business recommender app: GetGoing [[repo link](#) | [competition link](#)]

Aug 2022 - Oct 2022

- Spearheaded a team of five building an app using Twitter HashScraper API, winning 3rd Prize in Appetizer Hackathon hosted by Naver Cloud
- Stack: PostgreSQL, Spring Boot, React, Next.js, JavaScript

Skills

Programming Languages: JavaScript, TypeScript, Java, Python

Databases: PostgreSQL, SQL, PL/SQL, MongoDB, Supabase

Frontend: React, Next.js, HTML, CSS, Material UI, Chakra UI, Tailwind CSS, Emotion.js, D3.js, Axios, Ky, React Query

Backend: Express.js, Node.js, Joi

Devops: Jest, Supertest, Cypress, Git, Docker, CI/CD, GitHub Actions, Gitlab, AWS

Leadership Experience & Interests

SIM Data Analytics Club & IT Club: Analyst and subcommittee member, involved in internal projects and student leadership

Kingdomcity Connect Group Leader & Guitarist: Led and expanded groups, fostering communication and interpersonal skills

Assistant Platoon Sergeant: Led and managed a team, honing organizational and leadership abilities

Music & Acting: Over 7 years of live performance experience and featured in commercials, highlighting creativity and adaptability