

Lee Zhi Hao Bryan

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Education

B.Sc. (Information Systems) | Singapore Management University | Dean's List AY21/22 2021 - 2025

• **Courses:** Data Structures & Algorithms, Web Application Development, Mobile Application Development, Enterprise Solution Development, Object Oriented Programming, IT Solution Architecture (AWS)

Skills

Languages: Python, Java, JavaScript, TypeScript, Golang, SQL, HTML, CSS

Frameworks: Next.js, React.js, Vue.js, Firebase, Pandas, Node.js, SpringBoot, Flask, MySQL, MongoDB, PostgreSQL

Tools: AWS, Azure, Docker, Postman, Figma, Git, Jira, Tableau, Redis, Prisma, Drizzle, Kubernetes

Work Experience

Switchero Labs | Upcoming Backend Software Engineer Intern

20 Aug 2024 – Dec 2024

WSAudiology | Software Engineer Intern

13 May 2024 – 13 Aug 2024

- Part of **PRIME Team**, a B2B team which builds internal software for departments and factories within WSAudiology
- Deployed a backend microservice with **Docker, Kubernetes, Helm** and **Azure** for use in over **100k** manufacturing hearing aids units in factories worldwide each day
- Engineered UI features in **React** and **Redux** which integrated with backend microservices for use by factories worldwide to test manufactured hearing aid units

Shopee | Data Analyst Intern

4 Sept 2023 – 13 Dec 2023

- Initiated and led development of a backend service which integrated with Shopee's in-house communications application's bot in **Python** for Shopee's cross-regional internal communication system, automating and improving business process and workflow efficiency by **60%**
- Conducted analysis and forecasting on package revenue, monthly seller trends and projections in **Python** and **SQL**, contributing to **15%** improvement in revenue generation

Focus Digitech – Cybernatics Pte Ltd | Software Engineer Intern

8 May 2023 – 4 Aug 2023

- Developed and managed dashboards of SIEM platforms that optimized data visualization and operational efficiency in **React.js** and **TypeScript**, resulting in enhancements to a client's cybersecurity visualization infrastructure by **30%**
- Designed and implemented **NGINX-load balancing** solutions to optimize resource distribution across server clusters, improving handling of incoming traffic by **40%**
- Set up and configured numerous Linux virtual machines, implementing networking and security hardening measures for project architectures

Projects

Goldman Sachs Portfolio Analyzer – 1st place | [Project Link](#)

- Built a stocks analyzer in **Next.js** utilizing **SpringBoot** and **MongoDB** that provides secure JWT authentication & real-time analysis of stock profiles of different users with different profiles (time-series, P&L analysis)

Ascendas Loyalty Access Logging App | [Project Link](#)

- Built an access logging application in **React.js** with microservice architecture, with multiple backend technologies (**Express.js, SpringBoot, Flask**) that provides access control for different user roles
- Fully deployed on **AWS**, utilizing **DynamoDB** for database storage, and optimized query fetching with **Redis** caching

Algorithm Visualizer | [Project Link](#)

- Built a web-application in **Vue.js**, utilizing algorithms and recursion methods to visualizes algorithms in real-time with dynamic user interactions allowing users to change paths for each algorithm provided

Extra-Curriculars

Coder's Assembly Mentor

Aug 2022 – Dec 2022

- Guide peers and juniors in **Python** and **JavaScript**, algorithms, and frontend frameworks basics