Alexander Liswandy

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EDUCATION

National University of Singapore. Bachelor of Computing in Computer Science (Honours). *GPA 4.83/5.00*	**2023 to 2027**
Dunman High School, Singapore. GCE A-Level H2 Computing.	**2015 to 2020**

TECHNICAL SKILLS

Programming Languages & Tools: Scala | Java | TypeScript | Python | C++ | HTML & CSS | Git | Docker | AWS | Linux

Back-end Technologies: Finatra | NestJS | Spring | FastAPI | Flask | RabbitMQ | MongoDB | PostgreSQL

Front-end Technologies: React | Redux | Next.js | Vue | Cypress | Selenium

EXPERIENCE

RepoSense, Singapore - Open Source Contributor & Maintainer   **Jan 2025 to Present**

- Active contributor to NUS-OSS's RepoSense, an open-source analytics platform that generates interactive visualizations of programmer activities across repositories, currently deployed in 10+ NUS courses to track and provide insights for thousands of students per semester.
- Developed portfolio visualization capabilities for RepoSense, expanding the product beyond educational use cases to support professional showcasing of coding activities and project contributions.

Neurowyzr, Singapore - Back-end Engineering Intern   **May to Aug 2024**

- Designed and developed modular, functional-style libraries in Finatra that accelerated web games development by 80% while significantly improving maintainability and configurability. Utilised by the team to swiftly implement numerous new games.
- Engineered a back-end microservice in FastAPI with fine-grained authorization in AWS API Gateway and Lambda, enabling secure data processing for key business partnerships.
- Enhanced RabbitMQ message pipeline to support multi-command processing, enabling seamless message chaining across processing stages while maintaining service isolation, measurably improving scalability and maintainability.

Neurowyzr, Singapore - Software Engineering Intern   **Mar to Jul 2023**

- Initiated and built comprehensive end-to-end automation testing systems for mobile applications using Appium, detecting critical bugs early while drastically reducing testing time by over 85%, eliminating significant manual testing bottlenecks.
- Enhanced progressive web applications in React serving thousands of corporate and medical clients, delivering measurable improvements to user experience and security.
- Developed robust and configurable image processing microservices with FastAPI and Pillow to enable dynamic health report generation across diverse product lines.

PROJECTS

actions per minute. - Custom Keyboard Hub Web Application | Developer   **May to Sep 2024**

- Engineered a comprehensive hub for keyboard enthusiasts using Next.js, FastAPI, and PostgreSQL, implementing best practices to create a robust, full-stack application with guides, tools, and a marketplace.

Project Navex - Navigational Data Sheet (NDS) Generator Web Application | Developer   **Dec 2022 to Feb 2023**

- Engineered a solution to tackle a common problem faced during my National Service by creating a web application to streamline a 2-hour manual route planning process into a 5-minute procedure, serving 500+ military personnel daily.

The Amazing Race - Computing Game Web Application | Developer & Committee Lead   **Nov 2019 to May 2020**

- Spearheaded the development of a web-based game for BuildingBloCS 2020, Singapore's largest computing student outreach programme, engaging over 300 participants in its inaugural online event.
- Designed and implemented multiple interactive, computing-themed stages using Flask and JavaScript, resulting in over 95% player satisfaction ratings and an increase in participant engagement.