Brendan Ang Wei Jie

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Education

Nanyang Technological University 2020-2024	**Bachelor of Engineering in Computer Science | Bachelor of Business in Business Analytics** GPA: 4.79/5.0 | Dean's List 2021 Business | Technical Director, Open Source Society

Work Experience

IoT Engineer Intern Beep Technologies 06/2023 - 11/2023	Deployed core features such as power failure recovery and maintained stability of an Android IoT payment POS application in **Java** and **Kotlin**, helping to reduce live production reports. Profiled applications, solving out-of-memory errors and reducing overall memory resource footprint.
Software Engineer Intern Shopee 08/2022 - 12/2022	Built and designed features for an automatic script in **Go** for internal API failure detection, verdict and reporting, helping to increase the failure reporting efficiency for the Order team. Detected and coordinated fixes for API bugs, improving UAT environment stability rates from **60% to 90%**.
Full Stack Developer Intern Scoot 05/2022 - 07/2022	Developed frontend features in **Angular** to allow customers to change flights and review their booking as part of the internet booking engine. Fixed bugs in API endpoints using **.NET C#**.

Projects

AIoT Emulated Federated Learning Final Year Project [Github](#)	Built a **C** program to allow users to spin up federated machine learning clients running on QEMU on ZephyrOS, communicating with a central HTTP server.
Semantic Search Plugin Personal Project [Github](#)	Built and maintaining a tool in **Rust** and **TypeScript** supporting semantic search for Obsidian.md, a popular note taking application. Implemented a simple interface and algorithm allowing users to convert their notes into tokenizable sections, and use OpenAI's embedding API to create embedding vectors for semantic search.
NTU DownDetector NTU Open-Source Society Project [Github](#) - [Website](#)	Led a student developer team of 6 people in building a status reporting and monitoring web application for school services to improve the visibility of important student services such as internet and printing availability. Used **JavaScript** and **SQL** to develop a minimum viable product which allowed students to authenticate, view data charts and report their issues.

Skills

Vim | C | Rust | Java | Javascript | Go |