Brendan Ang Wei Jie

brendanawjang@gmail.com | [Website](#) | [Github](#) | [LinkedIn](#)

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

HPE Aruba Networking Software Firmware Engineer Intern 01/2024 - Present	• Part of the network switch operating system diagnostics team working primarily in **C**. • Implemented daemon capabilities to verify hardware systems such as EDAC error counts, eMMC function and PCIe switch function.
Beep Technologies IoT Engineer Intern 06/2023 - 12/2023	• Core contributor to 2 major versions of an Android IoT payment POS application in **Java** and **Kotlin**. • Built stability features such as power failure recovery and synchronization, reducing production defects by 40%. • Profiled applications, solving out-of-memory errors and reducing overall memory resource footprint.
Shopee Software Engineer Intern 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%**.
Scoot Full Stack Developer Intern 05/2022 - 07/2022	• Developed frontend features in **Angular** to allow customers to change flights and review their booking. • Fixed bugs in API endpoints using **.NET C#**.

Projects

Emulation Framework for Federated Learning Final Year Project [Github](#)	• Built a framework in **C** to allow users to bootstrap federated machine learning clients running on emulated hardware with QEMU and ZephyrOS • Aggregated metrics such as TCP 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 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 in **JavaScript**. • Developed a mvp which allowed students to authenticate, view data charts and report their issues.

Skills

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