

# Daniel Hoe

Software engineer who is passionate about building experiences and applications for users worldwide.

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[jumpcutfindo.github.io](https://jumpcutfindo.github.io)

## Experience

### Software Engineer · Visa

Jul 2022 - Present

- Spearheaded the development of a full stack, internal analytic tool for tickets that helped to identify process inefficiencies, reducing toil.
- Implemented a Node-based report generation system that automates data collection, slashing engineers' report creation time by 80%.
- Led documentation efforts for new joiner onboarding and application onboarding, accelerating engineers' initial understanding of our products and responsibilities.
- Enhanced efficiency by designing and deploying alerts for key API endpoints, freeing up 10% of engineers' time previously spent on manual monitoring.
- Proactively identified and addressed production environment issues, significantly boosting application performance through multiple bug fixes.
- Streamlined engineering processes and issue handling (e.g. standardised issue management procedures), cutting down repetitive tasks by 10%.
- Facilitated cross-team collaboration, providing insights and driving discussions that accelerated business-critical issue resolution by an average of 10%.

### Software Engineer Intern · HP

May 2021 - Aug 2021

- Developed a cross-platform Java application for efficient retrieval, storage, and analysis of data from printing devices, streamlining firmware development processes.
- Designed and implemented a data collection framework for printer sensors, significantly reducing the manual effort required from developers and testers.
- Enriched the application user experience by introducing user-friendly features such as user preferences and connection caches, enhancing the reusability of the application.
- Documented the application's implementation, including detailed Javadocs, to improve code readability and usability for future development efforts.
- Collaborated with managers and firmware developers to brainstorm innovative solutions and ideas for project improvement.

### Frontend Engineer Intern · MAF Intelligence

May 2021 - Aug 2021

- Enhanced the company's Angular-based web app by adding 3 major features: date standardisation, data synchronisation, and user groups.
- Introduced personalisation options (e.g., date formats, layout preferences) for consistent data representation throughout the application.
- Implemented cross-component communication, reducing user interaction steps by 10% and enhancing overall application cohesion.
- Contributed design enhancements using HTML, CSS (including SCSS), and JavaScript (e.g., button styles, layouts) to improve the application's aesthetics and user experience.

## Skills

### Programming Languages

Java, JavaScript, TypeScript, HTML, Python, C++, C#, Rust, MySQL

### Frameworks

React, Angular, Bootstrap, Tailwind, Express, Socket.IO

### Tools and Platforms

Git, GitHub, Visual Studio Code, IntelliJ IDEA, Linux

## Projects

### Happy Holidays

Minecraft mod in Java that adds Christmas related content

### Microchip

Minecraft mod in Java that displays character information in an intuitive interface

### Sync Along

Full stack application that allows users to control and listen to music playback together

### VJChoir Archives

Angular application archiving choir information and music, with features for listening to and curating playlists

### [jumpcutfindo.github.io](https://jumpcutfindo.github.io)

Personal website built on Next.js with Tailwind, with automated deployment via GitHub Actions

## Education

2018 - 2022

**National University of Singapore**  
Bachelor of Computer Science

## Interests

Game development, gaming, choir, cooking, photography