

Daniel Hoe

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

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jumpcutfindo.github.io

Experience

Fullstack Engineer · **ASUS AICS**

Mar 2024 - Present

- Developed complex Vue application components used by medical professionals, enabling users to manage patient records
- Contributed to a Python backend application (e.g. validation logic, refactoring components), providing improved security and maintainability
- Executed a cloud provider migration project from Azure to Google Cloud for cost reduction, improving application efficiency.
- Provided extensive documentation for the application's infrastructure setup as well as backend components, improving quality of reference material
- Participated in code reviews on both frontend and backend implementations, ensuring adherence to best practices, coding standards, and maintainability.

Software Engineer · **Visa**

Jul 2022 - Mar 2024

- 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.

Skills

Programming Languages

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

Frameworks

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

Tools and Platforms

Git, GitHub, Visual Studio Code, IntelliJ IDEA, Linux, Azure, Google Cloud

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

Fanyi

Simple Python screen reader application that reads Chinese and provides translations for individual phrases

VJChoir Archives

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

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