Ben Joseph Murphy

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EDUCATION

National University of Singapore   **Aug 2020 - May 2024**

Bachelor of Computing (Honors) in Computer Science

- GPA: 4.96 / 5.0
- Expected graduation: Honors (Highest Distinction) in May 2024
- Dean's List from School of Computing in 2021/2022 Semester 1, 2021/2022 Semester 2 and 2022/2023 Semester 2
- Distinction in Computer Security Focus Area

WORK EXPERIENCE

Software Engineer Intern | Visa Worldwide Pte. Ltd. | Singapore   **May 2023 - Jul 2023**

- Spearheaded development of a web application to create, manage and monitor automated tests on projects under the Visa Direct team, utilizing Next.js for frontend and Spring Boot for backend.
- Gathered user requirements from team and designed project from scratch, which included the supporting Oracle database and REST API endpoints for frontend-backend communication.
- Presented fully functional first iteration of the project to senior management near internship-end; Handed off project to full-timers as a lasting internal project in the Visa Direct team.

Software Engineer Intern | Shopee Pte. Ltd. | Singapore   **May 2022 - Jul 2022**

- Built React pages for frontend application under the latest major project in the Paid-Ads team.
- Implemented bugfixes over existing codebases in React and Vue.js.
- Learnt to implement custom frontend project configurations using Webpack.

Software Engineer Intern | Singapore E-Business Pte. Ltd. | Singapore   **May 2021 - Jul 2021**

- Worked on Spring Boot project for a direct debit authorization service, with MySQL supporting database integrated using Hibernate object relation mapper.
- Learnt to create process flows to conceptualize the implementation of payment services such as cross-border payments.

PROJECTS

Personal Website

- Developed personal website with React, to showcase knowledge and experience as a software developer, hosted on GitHub pages at https://benmurphyy.github.io/.
- Created a custom Webpack configuration to implement a multi-page application (MPA) with static site generation (SSG).

University Study Companion Finder

- Lead frontend development (in team of 4) for a progressive web application (PWA) as part of a university course final project, which provided students with a platform to find companions to arrange study sessions with across campus.
- Developed the PWA to be cross-platform with Ionic framework (in React), with scalable Firebase backend as the application was launched campus wide in Fall 2022.

SKILLS

- **Programming Languages**: C, C++, Go, Java, JavaScript, PostgreSQL, Python, Rust, Typescript
- **Libraries, Frameworks and Runtimes:** Ionic, Next.js, Node.js, PyTorch, React, Spring Boot
- **Software Development Tools**: Gradle, Maven, Webpack, Yarn
- **Miscellaneous technologies:** Fusion360