Dat Quach

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Summary

- **Languages**: Python, C#, C++, TypeScript, SQL, UML
- **Software**: Git, VS Code, Docker, Visual Studio, Eclipse, IntelliJ IDEA, Trello, JupyterLab
- **Frameworks**: Node.js, React, Next.js, Flask, Pytest, Jest

Work Experience

Website Development Intern, EPIC Semiconductors   May – Jul 2021

- Developed a frontend redesign to increase customer satisfaction using **React**, **Next.js** and **TaildwindCSS**, significantly reducing the development workload and estimated project development time by **50%**.
- Streamlined with **MongoDB** for backend testing and **GitHub Actions** for **CI/CD** to **Vercel**.

Projects

Ren, Open-Source Discord Bot Project   Jul 2021 – Present

- Maintain **GitHub** repos and resolve issues, resulting in high **user satisfaction** and **functional improvements**.
- Develop asynchronous chat functionalities using **Discord.py API**, enabling **real-time user interactions**.
- Deploy the bot on **Amazon Web Services (AWS) EC2**, which helps handle traffic with **99.9% uptime**.
- Leverage **GitHub Actions** to streamline continuous integration, code testing, style checking and linting process.

JupyterLab-Git, MLH Fellowship Open-Source Project   Feb 2022 – Apr 2022

- Implemented a warning box for unsaved files, ensuring user changes are fully committed to **Git** repo.
- In a team of 2, developed caching mechanism for user credentials, increasing **user experience** greatly.
- Engineered **Git** diff views on 2 arbitrary commits, allowing for more flexibility working with **Git** changes.
- Actively communicated with project maintainer and team leader to **propose** and **implement solutions**.

FDU CampusHub, Web LMS Frontend Project   Apr 2021

- Led a team of 4 on a LMS frontend redesign project, scoring **94%** in Human Computer Interface course.
- Conducted research and produced report to gain **user experience** insights.
- Streamlined with **React** with **Next.js** and **Vercel** auto-deployment on **GitHub** for **CI/CD**.
- Bootstrapped the project with **TailwindCSS** for stylings, lowering **60%** initial development workload.
- Used **TypeScript** and **ESLint** for code linting and type checking, resulting in fewer bugs.

Leadership and Volunteer Experience

Website Development Volunteer, SFU Anime Club   Dec 2018 – Present

- Develop an **eCommerce WordPress site**, serving information and fulfilling table orders from artist vendors.
- Work with the executive team, event organizers to establish website structure and UI/UX.
- Work with project manager to implement **WooCommerce**, streamlining the **eCommerce** set-up process.
- Bootstrap the site with **Elementor Pro**, reducing overall development workload substantially.

Code4Fun Staff Member, Fairleigh Dickinson University   Dec 2018 – Feb 2020

- Coordinated with staff team to plan for guest events, providing students with **IT industry insights**.
- Participated UBC Local Hack Day 2019 with a team of 4 and developed a **full-stack Django web application ColorBlux**, helping to identify color blindness issues in web designs.

Education

BSc. Information Technology, Fairleigh Dickinson University   Sep 2018 – May 2022

Minor: Business Administration	Award: **FDU Entrance Scholarship** (GPA ≥ 3.0)	**9 Terms**
CGPA: 3.9/4	Award: **FDU Honors' List** (GPA ≥ 3.5)	**7 Terms**