

# Dat Quach

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datquach



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## Summary

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- **Languages:** Python, C#, C++, Java, TypeScript, SQL, UML
- **Software:** Git, VS Code, Docker, Visual Studio, Eclipse, IntelliJ IDEA, Trello
- **Frameworks:** Node.js, React, Next.js, Flask
- **OS:** Windows, WSL, Linux
- **Coursework:** Computer Programming, Data Structures, IT Needs Assessment & Management, Website Design & Management, Discrete Structures, Digital System Design, Database Systems, Data Communications & Computer Networks, Human Computer Interface, Cybersecurity Foundations

## Education

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**BSc. Information Technology, Fairleigh Dickinson University**

**Sep 2018 – May 2022**

- Major: Information Technology
- Minor: Business Administration
- CGPA: 3.9/4.0

## Awards

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**FDU Entrance Scholarship**

**9 Terms**

Maintain a GPA  $\geq 3.0$  throughout the program.

**FDU Honors' List**

**6 Terms**

Maintain a GPA  $\geq 3.5$  throughout Fall/Spring semesters.

## Work Experience

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**Website Development Intern, EPIC Semiconductors**

**May – Jul 2021**

- Developed a frontend redesign to increase customer satisfaction using **React**, **Next.js** and **TailwindCSS**.
- Utilized **MongoDB** for local backend testing, plus **GitHub Actions** for **Continuous Integration and Deployment (CI/CD)** to **Vercel**, streamlining the development process.

## Projects

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**Ren, Open-Source Discord Bot Project**

**Jul 2021 – Present**

- Coordinate with a team of 4 to maintain **GitHub** repositories, resolve issues and fulfill users' feature requests, increasing user satisfaction and improvements in functionality.
- Develop asynchronous chat functionalities using **Discord.py**, enabling real-time interactions between users and the bot.
- Deploy the bot on **Amazon Web Services (AWS) EC2** with **99.9% uptime** which helps handle extensive traffic coming from multiple Discord servers.
- Leverage **GitHub Actions** to streamline code testing, style checking and linting process.
- Utilize an open-source **Python** framework **Red-DiscordBot** which helps ease the development process.

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## 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.
- Utilized **React** with **Next.js** to streamline the development process.
- Bootstrapped the project with **TailwindCSS** and **Heroicons** for stylings and iconology, lowering workload compared to writing separate CSS files.
- Used **TypeScript** and **ESLint** for code linting and type checking, resulting in fewer bugs.
- Set up **Vercel** auto-deployment on **GitHub** to perform continuous deployment.

## Weather Web App, MLH Fellowship Prep Project

Oct 2021

- Developed a **React** weather forecast web application, streamlined with **Bootstrap** and continuous deployment to **Netlify**.
- Utilized **API Ninjas** and **React Bootstrap Typeahead** to develop an autocomplete search box for city names, increasing user experience.
- Resolved issues and conducted code reviews on **GitHub** every week sprint, resulting in functional improvements and positive feedback from team lead.

## Chest Commands GUI Editor, Desktop App Project

Dec 2017 – Aug 2018

- Utilized **C# .NET** and **Windows Forms** to develop a desktop application which can generate configuration files, lowering more than **50%** internal workload compared to manual work.
- Styled the application with **MetroFramework UI**, resulting in improved user experience.
- Released 2 versions that received multiple positive user feedback.

## Leadership and Volunteer Experience

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### Code4Fun Staff Member, Fairleigh Dickinson University

Dec 2018 – Present

- Coordinate with staff team to plan for guest events, providing students with IT industry insights.
- Participated in UBC Local Hack Day 2019 as team FDU Tiamat.
  - Developed **ColorBlux** – a web application that helps identify colorblind issues in a web design.
  - Utilized **Django** as the main framework to efficiently handle both backend and frontend.
  - Used **CBviz** to perform image manipulation and produce simulation of colorblindness.