

Di Nguyen

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EDUCATION

University of Waterloo

Jan 2023 – Present

Bachelor of Computer Science

Waterloo, ON

- Major Average: 87%, Cumulative Average: 88%
- **Relevant coursework:** Object-Oriented Programming, Data Structures and Data Management

EMPLOYMENT EXPERIENCE

Instructional Support Assistant

Sep 2023 – Dec 2023

Cheriton School of Computer Science, University of Waterloo

Waterloo, ON

- Configured Linux daemons and marking engine using Python and Bash to deliver high quality public tests for streamlined testing and auto-marking assignments for over 1000 students. Marking timelines were reduced to **less than 1 hour** from several hours per week.
- Developed new features for auto-marking system using **Python, Bash, C++** to automate processes, and improve precision and feedback quality.
- Leveraged **Python, SQL, pandas** to process participation data across 11 lecture sections for over 1000 students, ensuring accurate calculations and improving data management and process efficiency.
- Utilized **HTML, CSS, JavaScript, Python** to develop and maintain user interface, authentication, and feedback features for the course website, improving the student user experience.

OTHER EXPERIENCE

Lead Backend Developer

Dec 2023 – Present

Computer Science Club, University of Waterloo

Waterloo, ON

- Utilize **TypeScript, Discord.js, Node.js, Yarn, Docker** to develop and maintain bots for Discord club server of over 1000 members.
- Maintain different bot services with various applications serving academics, internships and social activities, in collaboration with a team of 8 developers.
- Oversee development progress of team members, review pull requests, perform comprehensive testing and finalize development.
- Developed new features such as **spam bot detection** and **live command documentation**, enhancing user experience and interactions between server members.
- Integrated **UWFlow GraphQL API** into bots to provide rapid and convenient access to academic information.
- Leveraged **Claude API** to provide comprehensive course descriptions and peer reviews that feature insights not readily available from other sources.
- Conducted **bot framework migration** to optimize code base, management and testing.

Terminal and System Committee

Dec 2023 – Present

Computer Science Club, University of Waterloo

Waterloo, ON

- Oversee servers and virtual machines owned by the Computer Science Club, ensure timely resolution of issues.
- Configure new server and new tools for internal use within the club developer team.
- Resolve technical inquiries from club members and student body.
- Performing migration of virtual machines from CloudStack to OpenNebula for greater customization, simpler management, and better support.

PERSONAL PROJECTS

Personal Portfolio

Aug 2024 – Present

- Link to portfolio: <https://di-nguyen-portfolio.vercel.app/>
- Link to GitHub repository: <https://github.com/KuroganeToyama/portfolio>
- Utilized **TypeScript, Next.js, Tailwind CSS** to build dynamic portfolio with flexible frontend.
- Utilized **Vercel** to host portfolio and manage databases.