

Di Nguyen

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EDUCATION

University of Waterloo

Jan 2023 – Present

Bachelor of Computer Science

Waterloo, ON

- Major Average: 96%, Cumulative Average: 89%
- **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 to auto-grade assignments for over 1000 students. Grading timelines were reduced to **less than 1 hour** from several hours per week.
- Developed new features for auto-marking system using **Python, Bash and C++** to automate processes, and improve precision and feedback quality.
- Delivered engaging tutorials and enhanced understanding of course concepts among the students.
- Leveraged **Python, SQL and 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 and Python** to develop and maintain user interface, authentication, and feedback dissemination features for the course website, improving the student user experience.
- Communicated with team leaders to proactively identify and resolve emerging issues.

OTHER EXPERIENCE

Back-end Developer

Dec 2023 – Present

Computer Science Club, University of Waterloo

Waterloo, ON

- Utilized **TypeScript, Discord.js, Node.js, Yarn and Docker** to develop and maintain bot for Discord club server of over 1000 members.
- Ran and maintained different bot services with applications spanning academic, co-op and social activities in collaboration with a team of 8 developers.
- Developed new features such as **spam bot detection and live command documentation**, enhancing the server experience and interactions between server members.
- Utilized **GraphQL APIs** to provide rapid and convenient access to academic information.
- Harnessed ChatGPT to generate sample code for applications such as API query result interfaces and file handling. Average development timelines were **reduced to 5 days from the expected 2 weeks**.
- 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 efficiency.

Terminal and System Manager

Dec 2023 – Present

Computer Science Club, University of Waterloo

Waterloo, ON

- Performed oversight of servers and virtual machines owned by the Computer Science Club, ensuring timely resolution of any issues.
- Configured new server for internal use within the club developer team.
- Efficiently coordinated responses to technical inquiries from club members and student body.
- Migrating virtual machines from CloudStack to OpenNebula for greater customization, simpler management, and better support.

SKILLS AND INTERESTS

Languages: Python, TypeScript/JavaScript, C/C++, Bash, HTML/CSS, SQL

Technologies: Git, SVN, Linux, Node.js, npm, Yarn, Docker

Frameworks: Next.js, Flask

Microsoft Office Suite: Word, PowerPoint, Excel, VBA