

Darnell Foster

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EDUCATION

Bachelor of Computer Science: Cybersecurity Stream (Co-op)
Carleton University, Ottawa, ON

Sep 2021 - Present
CGPA 10.42/12(A-)

AREA OF STRENGTH

Languages: Java, Python, HTML/CSS, C/C++, JavaScript, SQL, Bash, Haskell,
Tools: Git, MS Suit, Godot, Putty, Qt, Docker, Node.js, VirtualBox, MongoDB, SQL
Soft skills: Conflict resolution, time management, adaptability, detail orientation, remote work

EXPERIENCE

Government of Canada PSPC (May 2024 - Dec 2024)

- Worked with dev and business team to create a department-wide cybersecurity learning tool.
 - Leveraged tools such as power apps and AI, reducing time and resources towards app development.
 - Participated in weekly scrums and collaborated using Jira ensuring smooth project progression.
 - Researched and compiled findings for a patch management guide for mitigating and resolving vulnerabilities in department infrastructure and applications.
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SKILLS, AND ACCOMPLISHMENTS

- Implemented principles of OOP, in Intro to Computer Science II, to ensure the quality of code.
 - Developed space and runtime-efficient algorithms in Abstract Data Types and Algorithms.
 - Strengthened networking and security knowledge from Cryptography and Principles of Computer Networking.
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PROJECTS

Elevator System Simulator in Qt C++ (Mar. 2024)

- Developed an elevator system simulator using Qt C++, incorporating a graphical user interface.
- Used OOP with use cases, sequence, and class diagrams for clear and efficient system design.
- Implemented various design patterns such as the observer pattern.
- Implemented multithreading to manage concurrent elevator operations and user interaction.

Health and Fitness Club Management System (Nov. 2023)

- Developed a club management system, using PostgreSQL, Node.js, and Express.js.
- Used branching with GitHub's pull requests, issues, and wiki features to manage project
- Used database queries to handle user registrations, login, and access levels within the application.
- Secured data with bcrypt for password hashing and .env files for database settings.
- Collaborated with the team to define and distribute project tasks evenly.

Cook-Book (Aug, 2023)

- Developed a web app using the React framework in order to create a user-friendly interface.
- Implemented search, filter, and page buttons for users to refine and navigate their search results.
- Used APIs for acquiring recipes to cut down on code using pre-established services.

Web Scraper (Oct. 2022)

- Used the JSoup library to parse and scrape HTML of job listings from LinkedIn
- Utilized Docker to containerize the app and ensure consistency in the development environment.

File Server Project (Jul. 2022)

- Implemented a TrueNas file server, by repurposing old computers preventing waste.
 - Utilized old hard drives to create a mass storage pool through disk mirroring and striping
 - Selected and configured RAID hard drive setup for desired server operation and performance.
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CERTIFICATIONS

- Google IT Automation With Python (Coursera, June 2023)