

Connor Bernard

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EDUCATION

Brock University Sept. 2022 - Dec. 2026 (Expected)
Honours Bachelor of Science Degree in Computer Science (Co-op) | GPA: 3.7/4 St Catherines, Ontario
Relevant Coursework: Advanced Data Structures, Operating Systems, Database Systems, Computer Architecture, Big Data Programming, Object-Oriented Programming, Cyber Security

EXPERIENCE

Sun Life Sept. 2024 - Dec. 2024
Software Engineer Intern Waterloo, Ontario

- Developed internal tools using **Java** and **AEM**, utilized by **50+** developers, resulting in **10 hours** saved weekly.
- Engineered **36+** **JUnit** test cases, leading to **98%** code coverage and cutting production defects by **30%**.
- Won **1st place** in Sun Life's Elevate Cloud Tech Hackathon, competing against **240 participants** globally.
- Improved documentation for internal tools and processes, boosting onboarding efficiency for new hires by **25%**.

Brock University May. 2024 - Dec. 2024
Research Assistant St Catherines, Ontario

- Modernised a web interface using **PHP** and **JavaScript** for Prof. Thomas Wolf's "TurboKnots" program, enabling complex mathematical knot calculations and visualizations online, improving computation speed by **90%**.
- Authored **23+** pages of documentation to support future development and ease of use for researchers.

Caribou Contests Jan. 2024 - Apr. 2024
Software Developer Intern Remote

- Led development of web 3D game using Three.js, delivering a smooth experience for **29,000+** players.
- Improved a multilingual chatbot's intent detection with Google DialogFlow, increasing accuracy by **15%** for over 5,000 monthly users, with a **React** frontend and **PHP** backend.
- Optimized **SQL** queries, reducing load times by **87%**, resulting in a faster and more efficient user experience.
- Developed data visualization webpages tracking school board purchases, boosting **\$30,000+** in revenue.
- Collaborated with other developers using **Git** & **GitHub** to perform code reviews and issue tracking.

PROJECTS

AI Resume Builder | *React.js, Express.js, OpenAI API, TailwindCSS* [Live Demo](#) | [GitHub](#)

- Developed a full-stack resume builder using **React**, **Next.js**, and **Tailwind CSS** for the frontend, and **Node.js** with **Express** for the backend.
- Integrated **OpenAI GPT** models to enhance resumes, improving clarity, grammar, and formatting.

BrightStart (1st Place Sun Life Elevate Cloud Tech Hackathon) | *AWS, Amazon Q*

- Developed an generative AI chatbot using **Amazon Q**, earning **1st place** out of **240 participants**.
- Integrated directly into Confluence pages, saving **35%** of time spent searching for and reading documentation through streamlined access and usability.

University Course Scheduler | *React.js, Express.js* [Live Demo](#) | [GitHub](#)

- Led the development of an open-source automated course schedule creator using **React** for a responsive front end and **Express.js** for the API backend, optimizing frontend performance to reduce load times by **80%**
- Utilized by **600+** students to generate **4,300+** schedules, simplifying course planning before registration.

Valorant Discord Bot | *JavaScript, MongoDB* [GitHub](#)

- Launched a Discord bot, built with **JavaScript** and **MongoDB** for real-time Valorant player and match statistics, maintaining **99.8%** uptime to ensure consistent service across all servers.
- Reached **15,000+** users and **75+** servers at peak, handling over **30,000+** commands run monthly.

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, PHP, C#, SQL, LaTeX
Libraries & Frameworks: Flask, Three.js, React, Django, Selenium, Express.js, Node.js, JUnit, Spring Boot
Developer Tools: Git, Linux/Unix, MySQL, MongoDB, Adobe Experience Manager, Jenkins, Artifactory, Jira, CDD