

# 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. Catharines, Ontario*

**Relevant Coursework:** Advanced Data Structures, Operating Systems, Database Systems, Computer Architecture, Big Data Programming, Object-Oriented Programming, Cyber Security

## EXPERIENCE

### Sun Life Financial

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.
- Built an AI chatbot using **Amazon Q** to help save time during the onboarding process, and won **1st place** out of **240 participants** in the Sun Life Elevate CloudTech Hackathon for this innovative cloud solution.
- Contributed to daily stand-up meetings to provide updates, address roadblocks, and collaborate with cross-functional teams on sprint priorities and project alignment.

### Brock University

May. 2024 - Dec. 2024

*Research Assistant*

*St. Catharines, 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

### Brock Visual Timetable | *React.js, JavaScript, HTML, CSS, Express.js*

- 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*

- 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.

### Wordle Solver | *Python*

- Implemented a minimax algorithm solving Wordle puzzles in **3.8 guesses** on average, using **Python** sets, list comprehensions, and string methods to minimize worst-case remaining solutions.

### Recipe Discord Bot | *Java*

- Utilized **Java** and the **Java Discord API (JDA)** to create a Discord bot that displays recipe instructions, time needed, calories, and more.
- Implemented **REST APIs** to retrieve recipe data from external sources, offering users a wide variety of recipes.

## TECHNICAL SKILLS

**Languages:** Java, Python, HTML, CSS, JavaScript, PHP, SQL, LaTeX

**Libraries & Frameworks:** Flask, Three.js, React, Django, Selenium, Express.js, Node.js

**Developer Tools:** Git, XAMPP, Linux/Unix, MySQL, Google Dialogflow, Socket.IO, MongoDB, Adobe Experience Manager, CRX, OSGI, Jenkins, Artifactory, Jira, CDD, Amazon Q