Caio Cotts

Software Engineer

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OBJECTIVE

To secure a position as a software engineer by demonstrating my proficiency in backend software design and architecture.

EXPERIENCE

Handy Automator — *Backend Engineer*

February 2026 - present

A home automation system you control with hand gestures

- Designed a RESTful API using the OpenAPI 3.0 specification.
- Generated backend code based on the OpenAPI spec to deliver an up-to-date server with each modification to the API.
- Used layered architecture and OOP concepts like abstraction to implement dependency injection and separation of responsibility throughout the codebase.

HuskyHack — *Backend Engineer*

December 2025 - present

George Brown Polytechnic's largest student run hackathon

- Worked in a team of software engineers to implement the full stack of the landing page for our event.
- Setup a serverless relational database to ensure minimum downtime and horizontal scalability.
- Used TDD/BDD style testing to describe how edge functions should function before implementing them.

EDUCATION

Computer Programming & Analysis

George Brown Polytechnic

started in September 2024 - expected to graduate April 2027

- Major in Computer Programming & Analysis.
- Core member of the computer science club.
- To represent George Brown Polytechnic in the upcoming Skills Ontario competition happening in May.

SKILLS

- **Self starter**
- **Work well with others**
- **Excellent bilingual verbal communication skills**
- **Object oriented and procedural paradigms**
- **Relational databases and SQL**
- **OpenAPI**

PET PROJECTS

Learning how to make a programming language

I've recently started reading a book called "Crafting Interpreters" by *Robert Nystrom*. In this book, I'm learning all about how interpreters are made. By following along with the book till the end, I will have made two interpreters for Lox, the language the author created for the purposes of teaching.

RPNC

A reverse polish notation calculator for the command line which is programmable via a LISP/Forth-like language called RPL. Based on the Hewlett-Packard model 28S

HOBBIES

- **Programming my calculator**
- **Self-hosting software on my raspberry pi**
- **Attending hackathons with my friends**
- **Learning about software design patterns and methodologies**