

# Chris McGale

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## EDUCATION

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- **University of Waterloo** Waterloo, ON  
*Bachelor of Computer Science* Sept. 2018 – Aug. 2023  
OOP, Machine learning, Data Structures and Algorithms, Databases, Operating Systems, Network Security, Randomized and Distributed Algorithms
- **Wilfrid Laurier University** Waterloo, ON  
*Bachelor of Business Administration* Sept. 2018 – Aug. 2023  
Deadline management, Presentation, Debate, Teamwork

## EXPERIENCE

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- **Co-Operators Insurance** Sept 2021 – Present  
*Fullstack Software Engineer* Kitchener, ON
  - Ground up **Agile** development with **Node.js React** and more resulting in **4 internal** and **2 external** apps
  - **Coordinated** design specifications with and **presented** features to project owners
  - Increased testing coverage across all apps with **jest & code review**
  - Debugged **3+** race conditions that affected more than **15,000** service requests
  - Developed a real-time notification delivery API to drive **100k+** push notifications per day using **.NET** and **Redis**
  - Met desired performance goals by switching from a non-relational to a **PostgreSQL** database
- **CPA Canada** Jan 2020 – Apr 2020  
*Systems Analyst Intern* Toronto, ON
  - Prepared **presentations, documents and spreadsheets** summarizing and analyzing the cost benefits of projects totaling over **\$10,000**
  - Automated the collection and comparison of **20,000+** pages of accounting standards across **5** international regions using **Bash** and **Python** resulting in over **100** hours saved by principals per year
- **City of Toronto** Apr 2018 – Jan 2020  
*Pool In Charge* Toronto, ON
  - **Led** a team of 4 - 6 lifeguards through both **proactive** maintenance and **urgent** emergencies requiring innovative and fast paced responses
  - Resolved interpersonal conflicts to guarantee cohesive **teamwork** and **customer excellence**. Isolated and solved problems to ensure **continued service**

## PROJECTS

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- **Object Oriented Chess:** Complete implementation with AI players. Written in **C++** with UML and design documentation. Employed the Observer and the Strategy design patterns.
- **Financial Web Scrape:** Automatic collection and analysis of financial data on 500 firms.
- **AI real estate evaluator:** Uses a location's proximity to amenities and the market price of similar properties to predict a fair valuation.
- **KDC Bot:** Helped with the design and navigation of a web app controlled robot for use in the Co-Operators office.
- **Private Website:** Please see chrismcgale.github.io for some of the above and more. To view private projects use password **odyssey**

## TECHNICAL SKILLS

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**Languages:** TypeScript, C++, HTML, CSS, Python

**Technologies:** Node.js, Flask, Kubernetes, Redis, PostgreSQL, MongoDB, Bash, React, Express.js