

Matthew Dibble

3B Computer Science & Business Dual Degree

Email: mdibble@rogers.com / Portfolio: matthewdibble.com / GitHub: [mdibble](https://github.com/mdibble)

SKILLS

Languages	C/C++, Rust, Java, Python, TypeScript, JavaScript, HTML/CSS, SQL, VBA, Google Apps Script
Web	React, Redux, Node.js, Express, Postgres, MySQL, Mongo, Jenkins, Docker, Splunk, Azure, REST, Jest
Systems	CMake, Visual Studio, MSVC, GCC, ARM, MIPS, 6502, Dear ImGui, SDL2, OpenGL

EXPERIENCE

Software Developer

Kitchener, ON / **Winter 2021**

The Co-operators

- Lead developer for several core frontend and backend services of an in-development internal large-scale webapp
- Successfully brought said app from early-stage development to UAT in a time that exceeded expectations
- Maintained production webapps and internal libraries, ensuring continued compatibility with existing dependants
- Gained practical experience interacting with DevOps/infrastructure tools such as Splunk, Jenkins, and Azure
- Effectively collaborated with a large team, communicating with leads, testers, analysts, and other developers

Systems Analyst & Developer

Innisfil, ON / **Summer 2020**

FreshSpoke

- Architected scalable and practical inventory management system from scratch, enabling high levels of automation
- Created separate interim system for tracking inventory in Excel, writing scripts to improve user workflow
- Developed frontend for a modular, filterable analytics dashboard used by investors, administration, and clients
- Provided quality assurance testing for a fleet of mobile apps, thoroughly documenting any unexpected behaviour

Logistics Coordinator

Barrie, ON / **Summer 2019**

FreshSpoke

- Managed large-scale user experience overhaul project for two mobile applications adhering to set requirements
- Standardized and documented a set of procedures designed for new clients of the platform to get started easily
- Researched and developed solutions to consolidate backend payment processing and evaluated subsequent results
- Created, researched, and deployed a social media ad campaign targeted and tailored for a specific demographic

PROJECTS / Non-exhaustive, view my [GitHub](https://github.com) for a comprehensive list

Nintendo Entertainment System (NES) Emulator – Rust, SDL2 – [Source](#)

- Cycle-accurate emulator of the *Nintendo Entertainment System* that takes advantage of Rust's unique properties
- Degree of accuracy allows for play of *Super Mario Bros.*, *The Legend of Zelda*, *Donkey Kong*, and much more

2020 US Presidential Election Poll Aggregator – Node.js, React, Mongo, Express – [Source](#)

- Full stack web-app that compiled data from federal election polls and presented information on a per-state level
- Includes custom REST API that enables users to add, delete, modify, and extract data stored in a NoSQL database

CHIP-8 Interpreter w/ GUI and Debugger – C++, OpenGL, Dear ImGui – [Source](#)

- Multi-platform interpreter of the CHIP-8 instruction set that includes a large suite of interactive debugging tools
- Offloads rendering to the GPU using OpenGL as a backend to allow for considerable performance gains

MORE INFORMATION

Education

Wilfrid Laurier University – 11.24/12.00 GPA

Waterloo, ON / **Fall 2018 – Spring 2023**

- Candidate for Bachelor of Science in Computer Science (BSc)
- Candidate for Bachelor of Business Administration (BBA)

Accolades

- Semi-finalist – 2019 BDO New Venture Case Competition (200+ entrants)
- Finalist – 2018 Starbucks Consulting Case Competition (200+ entrants)