

# Matthew Dunn

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## SKILLS

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- Languages: C, C++, Swift, Python, HTML, CSS, Lua, JavaScript, and TypeScript
- Tools and frameworks: Git, Docker, Linux, VSCode, Kubernetes, GDB, Firebase, and Angular

## PROFESSIONAL EXPERIENCE

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January 2022 - April 2022

**Software Developer (Gateway Team)**, BlackBerry Waterloo, ON

- Coded new features and bug fixes for five different microservices using Python, C, Lua, and JavaScript
- Communicated with senior team members to coordinate microservice deployments to the production Kubernetes cluster
- Reduced memory consumption of a cronjob service by 50%, which allowed the job to process more data without increasing costs
- Developed thorough integration and unit tests for every code change made, resulting in improved test coverage and robustness for the service

May 2021 - August 2021

**Mobile and Web Developer**, Pairrd Remote

- Developed and shipped end-to-end features to thousands of users on iOS (Swift) and web (Angular) with a Firebase backend
- Performed manual QA testing and made bug fixes to improve application quality and user experience
- Independently designed and implemented user interfaces using industry standard web/mobile design principles

## PROJECTS

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**First Robotics: Team 4917 (C++)**

- Elected head of the software and scouting subteams for the 2019 season (each subteam contained more than twenty people)
- Taught approximately forty new students the skills required for software and scouting positions
- Contributed to the development of autonomous programs, various subsystems, commands, and command groups, some of which required the use of state machines and sensors
- Currently mentoring students on the software team, which involves working with small groups of team members and teaching them how to code

**CamWow (Python)**

- Created a program that uses a camera connected to a Raspberry Pi to detect user gestures and perform an automated task based on that gesture
- Used the Selenium extension to automate browser tasks
- Collaborated with a team of four other Software Engineering students

## EDUCATION

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September 2020 - April 2025

**University of Waterloo**

Waterloo, ON

BSE in Software Engineering, Expected Spring 2025