

# Timothy Elgersma

4A, University of Waterloo, Computer Science

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## Summary of Qualifications

- **Languages:** C++, Java, Javascript, Kotlin,  $\LaTeX$ , Python, SQL, Typescript
- Commended by managers for being a hardworking, dependable, and flexible team member
- Strong focus on testable code - every module I checked in had over 95% test coverage
- Excellent communication skills demonstrated through documentation, peer mentorship, and team meetings

## Experience

SEPTEMBER 2020 – DECEMBER 2020

### Compiler Engineer • Huawei

- Dramatically reduced time-to-debug by automating the process of identifying the failing shader and optimization pass
- Constructed a framework to compare compiler performance to build out a comprehensive GPU analysis suite

JANUARY 2020 – APRIL 2020

### Backend Developer • Faire

- Increased Faire's contribution margin by 180bps by implementing payment assistance plans and allowing the risk team to make timely, informed decisions by surfacing relevant customer and Plaid data
- Decreased customer support ticket count by 9% through heuristics to auto-handle common requests
- Reduced Faire's tax liability by 30% by collecting retailer tax information
- Refactored customer invoices for correctness, clarity, and simplicity

MAY 2019 – AUGUST 2019

### Software Developer • Genesys

- Designed and documented Genesys Conversation Provider's database access module
- Improved solution resiliency by implementing a persistent queue for asynchronous backend communication in Typescript
- Increased testability by upgrading Jenkins pipeline to include Postgres for simple integration tests

## Projects

JUNE 2020 – PRESENT

### Developer • Crop Companion

- Crop Companion is an Android app that generates a planting schedule for a balanced diet for a varying population
- Implemented and tested the calculations, and designed and some input screens
- Created for CS 446 (Software Architecture), and under development to be adapted for Thrive For Good

JANUARY 2019

### Backend Developer • Split

- Split is an Alexa based cost sharing apps designed to make living with roommates easier
- Built a RESTful API with Flask hosted in a Digital Ocean droplet to handle requests made from AWS Lambda

## Education

SEPTEMBER 2017 – APRIL 2022

### University of Waterloo • Bachelor of Computer Science

- Going into 4A of a Bachelor of Computer Science
- **Relevant coursework:** CS 341 (Algorithms), CS 446 (Software Architecture), CS 458 (Security)