

Veljko Dimic

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Education

- **Software Engineering**, University of Waterloo, expected 2021
- **3.8 GPA**, Dean's Honours List

Technologies

- **Experienced With** C++ \ Go
- **Working Knowledge** Java \ C \ Javascript \ Python \ PHP
- **Frameworks** Boost \ Qt \ JQuery \ Ruby on Rails \ Node.js
- **Tools** Git \ Bash \ L^AT_EX \ LLDB \ Photoshop

Experience

Uber Software Engineer Intern

San Francisco, California (May - Aug 2019)

- Architected and implemented data pipeline to show transit stops on the Uber homescreen
- Integrated Uber internal frameworks to make a scalable asynchronous transit homescreen solution, which will handle approximately 2000 requests per second on feature launch
- Created formal document on architecture to allow users to save transit stops, and defended design decisions with Uber reviewers

Formlabs Software Engineer Intern - 3D Printing

Boston, Massachusetts (Sept - Dec 2018)

- Wrote production code on slicing software for an SLA 3D printer used by thousands of customers
- Reduced mesh loading time by 55% by implementing a faster mesh neighboring algorithm
- Decreased support generation failure rate by up to 20% for complex models
- Developed dynamic support sizes, resulting in increased accuracy without an increase in print failures

Honeywell Software Engineer Intern

Atlanta, Georgia (Jan - Apr 2018)

- Added key features to a robust flight planning engine as part of an agile team, such as off-route altitude constraints, while maintaining performance in C++
- Received distinction from colleagues for initiative in integrating the flight planning engine with Honeywell technologies from other teams

Projects

SL3 Compiler Simple Lisp-Like Language

- Created a compiler for a subset of the Lisp language using C++
- Complete with custom Lexer, Parser (using SLR parsing), and Code Generator (transpiling to LLVM IR)

Alexa JARVIS WearHacks Waterloo 1st Place Winner

- Created a modular voice controlled helmet attachment for hands-free use
- Incorporated Amazon's Alexa voice service into a Raspberry Pi, and made an Alexa skill to communicate with the user using Node.js and Firebase for the backend

Chrono Cube Timer Android App With Over 1000 Downloads

- Developed an Android application for both beginner and expert speed cubers to track time and progression, and generate scrambles