

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

Experience

Yext Software Engineer Intern

New York, New York (Jan - April 2020)

- Implemented user flow to identify Facebook and Yelp Enterprise listings, replacing an operations request and resulting in immediate turnaround time and saving employee time
- Created new endpoints to decrease load on Elasticsearch clusters for inefficient queries by up to 20%
- Added monitoring to successfully help diagnose a service with frequent failures

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 handled 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
- Decreased support generation failure rate by up to 20% for complex models
- Reduced mesh loading time by 55% by implementing a faster mesh neighboring algorithm
- 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++

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