# Byron Wasti

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# Education

Olin College of Engineering

May 2018

Bachelor of Science in Electrical and Computer Engineering, 3.81 GPA

# Experience

#### Wanderu Inc.

Software Engineer
Junior Software Engineer

April 2019 - Present

July 2018 - April 2019

- Designed and implemented a graph algorithm for optimizing the PageRank of the internal linking of city-to-city travel pages. Optimized graph has over 200K nodes and 5M edges.
- Designed and implemented a recommendation system for user trips. Used in email blasts to over 1M users.
- Designed and implemented a translation CMS for supporting custom content on over 1.9M pages across 7 locales.
- · Developed a causal inference system using CausalImpact to measure the effect of site-wide changes on session growth.
- Implemented a Request For Comments (RFC) system for getting feedback on system architecture plans.

#### **Amazon Robotics**

Software Engineering Intern

Summer 2017

- Member of eight person team developing proof-of-concept robot for warehouse automation using ROS.
- Designed and implemented a sensor-specific point-cloud filtering algorithm to reduce noise.
- Designed and implemented a data visualization system in C++.

### Onshape

Software Engineering Intern (FeatureScript Team)

Summer 2016

- · Designed and implemented various geometric algorithms for built-in functions for the FeatureScript language.
- · Designed and implemented an advanced autocomplete algorithm for online code editor.
- · Challenges included optimizing code, geometric algorithms and text algorithms.

# Audience Inc., Multisensory Algorithm Intern

Software Consultant Multisensory Algorithms Intern Fall 2015 - Spring 2016

Summer 2015

• Built Machine Learning classifiers, developed backend for ML pipeline, developed tools for automating data post-processing and developed software for interfacing wirelessly with Android devices using TCP sockets.

# Olin Electric Motorsports (fSAE Electric Team)

Firmware Developer

2015 - 2018

• Firmware Lead from 2015 through fall of 2017 for 40-person electric vehicle club designing Formula Electric racecars for the Nebraska SAE competition. Developed software system for distributed CAN network.

## **Projects**

(more at github.com/byronwasti)

#### Spreadsheet CLI

In-terminal spreadsheet application with dependent cells and basic programming language.

#### #Hashtag Gloves - Tweeting Smart Gloves

Featured nationally on news outlets such as Buzzfeed and Gizmodo for hackathon project on tweeting gloves.

#### Open Source Smart Watch

Designed PCB and wrote firmware for a custom Smart Watch. Arm Cortex-M4 processor with firmware in Rust.

### Quantum Computer Simulator in Python

Simulation of 5 fundamental Quantum Logic gates: X, Y, Z, Hadamard and CNOT.

### Skills

Fluent in Rust, Python and Git. Competent in C, C++ and Javascript. Familiar with Haskell and Elm. Backend development, systems development, full-stack development and firmware development. Circuit and PCB design (Kicad).