

## Experience

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### Balter Load Testing

Founder

January 2024 - Current

- Developed Balter, an Open Source, distributed load testing framework for Rust.
- Developed AutoBalter, an automatic load testing suite based on an OpenAPI specification.
- Built and maintained balterloadtesting.com, as well as various marketing efforts.
- Presenter for P99 2024 conference on research done for Balter on Rust Async performance.

### Amazon Web Services

SDE L5 (Rust)

July 2021 - November 2023

- Launched new product, AWS Payment Cryptography. Low-latency (under 10ms), high-throughput (over 100K TPS), high-correctness system.
- Designed distributed state-machine solution for fleet orchestration, which reduced overall complexity and provided mechanisms for failure tolerance and auto-recovery.
- Patent-pending distributed orchestration algorithm for HSM configuration based on Lamport Timestamps.
- Developed distributed load testing solution for evaluating performance, generating over 100K TPS across multiple machines.
- Ran Rust trainings and workshops for the AWS Cryptography Org.

### Commure

Software Engineer, Foundation Team (Rust)

March 2020 - July 2021

- Member of 8 person foundation team developing and maintaining FHIR database platform.
- Tech lead for an AI-insight solution, landing \$5M contract with a large hospital.
- Tech lead for an ETL solution for ingesting and transforming data into FHIR for a large medical partner.
- Designed and implemented authentication solution for a Proxy-IDP to bridge the gap between authentication systems.

### Wanderu

Software Engineer (Python/JS)

April 2019 - March 2020

Junior Software Engineer (Python/JS)

Sept 2018 - April 2019

- Designed and implemented a translation CMS for supporting custom content on over 1.9M pages across 7 locales. This helped boost SEO rankings to 40-50% year over year due to significantly more custom content.
- 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.
- Implemented an RFC system which was made a key part of the software design process.

### Internships

Amazon Robotics, Software Engineering Intern (C++)

Summer 2017

Onshape, Software Engineering Intern (C++)

Summer 2016

Audience, Software Consultant (C)

Fall 2015 - Spring 2016

Audience, Multisensory Algorithms Intern (C)

Summer 2015

## Education

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### Olin College of Engineering

May 2018

Bachelor of Science in Electrical and Computer Engineering, 3.81 GPA

Firmware Development Lead (C) for Olin Electric Motorsports (fSAE Electric Team)

## Projects

(more at [github.com/byronwasti](https://github.com/byronwasti))

### Balter, A Load TestER

Distributed load testing framework for Rust, designed for composability of load test scenarios.

### Database Migration Manager CLI (Movine)

A minimalist database migration manager developed in Rust.

### #Hashtag Gloves - Tweeting Smart Gloves

Featured nationally on news outlets (Buzzfeed and Gizmodo) for hackathon project on tweeting gloves.

## Skills

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Fluent in Rust, Python and Git. Competent in C, C++ and Javascript/Typescript. Familiar with Haskell and Elm.

Distributed systems, backend development, systems development, full-stack development and firmware development.