

JULIAN FAIRMAN ZUCKER

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EDUCATION

Northeastern University, Khoury College of Computer Science
Bachelor of Science in Data Science

May 2021
GPA: 3.88

WORK EXPERIENCE

PayPal

May 2018 – December 2018

Business Intelligence Co-op, Graduate Student

Newton, MA

- Given sole responsibility to replace undocumented, legacy system written in Python, saving 10 hours per week of manually running scripts and fixing daily, client-facing data errors. Reverse-engineered spec from old system, wrote unit and integration tests to ensure correctness.
- Created SQL test harness in PL/SQL, saving 30 hours per month of manual testing, creating a standard test suite across team, and revealing errors before other teams were impacted.
- Created proof of concept for real-time data processing: decreasing query time from 3 hours to 2 minutes by using Spark and Redshift, meeting SLAs that had been being missed for years.
- Saved 15 hours per week by automating generation of weekly reports using PowerShell.

iSpecimen

December 2017 – April 2018

Business Intelligence Analyst, Part-Time

Lexington, MA

- Identified opportunity to save \$70,000 by performing cost/benefit analysis for a proposed data format change, created report and presented findings to CTO, resulting in
- Answered high-impact questions for CEO by performing data visualization and analysis.

uConnect

May 2017 – December 2017

Engineering Intern, Sales

Boston, MA

- Added \$1,300,000 in sales funnel at point with 18% conversion rate, by working with sales team to identify opportunities for automation tools, and creating those tools.
- Designed content recommendation microservice using collaborative filtering, implemented in Python with Flask, reported on predictive accuracy, ensured scalability with stress tests.
- Decreased QA ticket queue size by 30% by building Naïve Bayes model in R to classify tickets.

Northeastern University

January 2017 – Present

Teaching Assistant

Boston, MA

- Best office hours and lab according to student survey/grade average, four out of four semesters.
- Taught students to concisely and clearly discuss code, and identify problems in test coverage.
- Guided advanced students through writing lisp interpreter and understanding Y-combinator.

PERSONAL PROJECTS

github.com/ evvo-labs/evvo

January 2019 – Present

A Scala framework for multi-objective optimization using distributed evolutionary computing.

github.com/julian-zucker/socialchoice

April 2019 – Present

A Python library for social choice theory: collecting votes and computing winners or rankings.

github.com/julian-zucker/modelyeti

September 2018 – December 2018

Deploy ML models in three lines of code, creating API endpoints for using the model and viewing logs.

github.com/julian-zucker/code-or-die

March 2018 – April 2018

github.com/julian-zucker/code-or-die-client

Real-time game played with HTTP requests, client AI and stream processing framework written in Racket.

github.com/julian-zucker/website

March 2018 – Present

Personal website written in Elm, including dev log for every week since the week of 5/29/2019.

github.com/julian-zucker/trace

June 2017

Scraped course evaluations for all courses at Northeastern using Selenium, visualized using d3.js.