

Dylan Powers

(303) 475-1909 | dylan.powers@duke.edu | <https://dylandpowers.github.io>
745 South Jackson Street, Denver, CO 80209

EDUCATION

Duke University – Pratt School of Engineering

Durham, NC

B.S.E. in Electrical and Computer Engineering, B.S. in Computer Science, Minor in Economics

Expected May 2020

GPA: 3.78/4.0, Dean's List (F16, F17, S18, F18, S19)

Coursework: Data Structures & Algorithms, Artificial Intelligence, Design & Analysis of Algorithms, Computational Genomics, Computer Network Architecture, Digital Systems, Operating Systems, Probability, Linear Algebra

Smoky Hill High School

Aurora, CO

National AP Scholar, Valedictorian, Student Body President

May 2016

GPA: 4.6/4.0, **ACT:** 35, **SAT:** 2190

WORK EXPERIENCE

Yext

New York, NY

Software Engineer Intern

May 2019 – August 2019

- Migrated Approvals Search mechanism from MySQL to Elasticsearch.
- Implemented message handlers to listen to updates from RabbitMQ and apply to Elasticsearch documents.
- Transitioned frontend entity selector from traditional radio select to a modern React component.
- Reduced latency in an endpoint in Template API by 80% by letting caller specify the need for metadata only.
- Created architecture diagram and documentation for existing Scheduled Updates service.

Tanium

Morrisville, NC

Engineering Intern

May 2018 – November 2018

- Created data normalization service for Asset product, allowing users to define custom regular expressions to normalize software reports as they come in.
- This feature was requested by several Fortune 500 companies to increase targetability with software reports.
- Wrote algorithm to delete duplicate entries after normalization, decreasing average DB size by 10%.
- Created front-end UI with AngularJS for users to manage, update, and delete normalization mappings.
- Created back-end PostgreSQL model to store mappings compliant with existing Tanium infrastructure.
- Wrote extensive Wiki documentation to support the continued development of this feature.

Our Space

Durham, NC

Software Developer

September 2019 – Present

- Member of a startup creating an application for users to ask and answer questions about spaces and locations.
- Create and implement Elasticsearch index for searching existing custom spaces.
- Built Space Server API in Java using Javalin, Protobuf, and Cloud Firestore.
- Helped design API infrastructure for Space Server and Application Server.

Duke Computer Science

Durham, NC

Undergraduate Teaching Assistant

January 2018 – Present

- Digital Systems (ECE350, S18, F19): hold weekly office hours, grade assignments, and write test questions.
- Advanced Software Design (CS308, S18, F19): Mentor for four students; do biweekly code reviews to help them implement design patterns and SOLID principles into their large projects.
- Computational Genomics (CS260, F18, F19): Held weekly office hours and graded problem sets.
- Data Structures & Algorithms (CS201, S18): Taught weekly recitation sections to students about elementary computer science concepts like linked lists, graphs, binary trees, recursion, etc.

SKILLS, ACTIVITIES, & INTERESTS

Programming: *Advanced* – Java; *Intermediate* – Swift, Python, JavaScript, C; *Familiar* – HTML/CSS, Matlab, SQL

Technologies & Frameworks: *Advanced* – Git; *Intermediate* – AngularJS, Node.js; *Familiar* – Play, AWS Lambda

Activities and Honors:

- President & Co-founder of Duke Speech, the school's first competitive speech team. The team also volunteers at local high school speech and debate tournaments.
- Head Coach of Extemporaneous Speaking at Durham Academy; mentor a team of 8 students and help them practice for tournaments.
- Member of Duke Student Government Research Unit; surveyed over 300 students to come to a proposal on how to improve the Academic Advising Center.
- Member of Duke University Union DevOps; created an alumni database system with AngularJS & Node.js
- Pratt School of Engineering Tour Guides
- 10th Place United States Extemporaneous Speaking at National Speech and Debate Tournament
- Colorado State Champion in United States Extemporaneous Speaking

Interests: Mobile app development, entrepreneurship, tech startup culture, snowboarding, basketball, reading, travel