

# Dylan Powers

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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.

### Gift Card Tracker

Durham, NC

CEO

January 2019 – Present

- Founder of an iPhone app that lets users manage and spend gift cards. App also gives alerts when users are close to places where they can spend their gift cards.
- Created feature with Google MLVision to input card data based on an image of the card.
- Build out application architecture from scratch using Swift & XCode with a Firebase DB in a team of 2.
- Expected release October 2019.

### 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, Verilog

### 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
- 10<sup>th</sup> 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