

# Dylan Powers

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749 Ninth Street Apartment 253, Durham, NC 27705

## 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*

May 2020

**Honors:** *Cum Laude* (GPA 3.8/4.0), *Dean's List* (F16, F17, S18, F18, S19, F19)

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

## WORK EXPERIENCE

### Yext

New York, NY

*Software Engineer*

June 2020 Start

- Team TBD

### 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.

### OurSpace

Durham, NC

*Software Engineer*

September 2019 – April 2020

- Migrated existing build system from Maven to Bazel to produce more incremental builds.
- Migrated existing data pipeline to use Protobuf instead of JSON.
- Built Activity Log Server using Java and deployed to AWS using EC2, ECS, and ECR.
- Created notification tab and newsfeed tab for iOS client using Swift and XCode.

### 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 client with AngularJS for users to manage, update, and delete normalization mappings.
- Created PostgreSQL model to store normalization mappings compliant with existing Tanium infrastructure.

### Duke University

Durham, NC

*Undergraduate Teaching Assistant*

January 2018 – April 2020

- Digital Systems (ECE350), Advanced Software Design (CS308), Software Design (CS307), Computational Genomics (CS260), Data Structures and Algorithms (CS201)

## PROJECTS

### React Native Messenger

Spring 2020

- Created unique messaging app using React Native, Redux, and Firebase.
- Used Google's Material UI library to style frontend components.

### Krafthouse Trivia Web App (Project Leader)

Fall 2019

- Led team of 8 students creating web app for weekly trivia contests with 80+ weekly participants.
- Created admin portal to create quizzes and grade answers, and user portal to answer questions.
- Created client with React and used Firebase for storage.

### HomeSafe

Fall 2019

- iPhone application where users create "safe groups", and can mark themselves home safe after a night out.
- Users can view locations, check status, and view emergency contacts for all members of the group.
- Developed client using Swift and XCode, using Firebase for storage.

## SKILLS, ACTIVITIES, & INTERESTS

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

**Technologies & Frameworks:** Git, Firebase, AWS ECS & ECR, React, React Native, Maven, Bazel, Protobuf

**Interests:** Mobile app development, entrepreneurship, running, snowboarding, basketball, reading, travel