

# Dylan Powers

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## 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 III

June 2020 – Present

- Received a rank of Top Performer in my first performance review, reserved for top 5-10% of company.
- Led effort to create new Entity Previews UI with React. Created spec for project and oversaw a small team.
- Completed redesign of new landing page for searching on Entities. Promoted best practices for React.
- Created *EntityPreviewServer* using Java, with CRUD operations to act on Entity Previews.
- Re-architected Entity Upload system to not depend on our Export microservice for detecting updates.
- Created architecture diagram and documentation for *ProfileFieldServer*, our busiest server.

### 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.
- 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.

### 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.
- 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.

### 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

### Koru Meditation (<http://www.korumeditation.com>)

Fall 2020)

- Created web version of the popular Koru Meditation app.
- Created a meditation page, a past sessions page, and a public gratitude river.
- Developed using the MERN stack with styled components, and hosted on Heroku.

### 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.

## SKILLS, ACTIVITIES, & INTERESTS

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

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

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