Dylan Powers

(303) 475-1909 | dylan.powers@duke.edu | https://dylandpowers.github.io
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   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.

OurSpace   **Durham, NC**
Software Developer   September 2019 – Present
- Member of a startup creating an application for users to ask and answer questions about locations.
- Transitioned existing API data pipeline to use Protobuf instead of JSON.
- Built SpaceServer API in Java using Javalin, Protobuf for messaging, and Firestore for storage.
- 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 Computer Science   **Durham, NC**
Undergraduate Teaching Assistant   January 2018 – Present
- Digital Systems (ECE350), Software Design (CS308), and Computational Genomics (CS260)

PROJECTS

Krafthouse Trivia Web App   **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, server with Node.js using 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.

Gift Card Tracker   **Spring 2019**
- iPhone application where users can keep track of all existing gift cards and their balances.
- Implemented OCR model using FirebaseML to autofill gift card information with an image of the card.

SKILLS, ACTIVITIES, & INTERESTS

Programming: *Advanced* – Java, Swift; *Intermediate* – Python, JavaScript, C; *Familiar* – HTML/CSS, Matlab, SQL
Technologies & Frameworks: Git, Firebase, Node.js, AWS Lambda, React, Maven, Bazel, Javalin, Protobuf
Interests: Mobile app development, entrepreneurship, tech startup culture, snowboarding, basketball, reading, travel