

# Ben Musoke-Lubega

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## Education

### Princeton University

Princeton, NJ

B.S.E. in Computer Science

September 2016 - June 2020

- **Relevant Courses:** Computer Graphics, Information Security, Advanced Programming Techniques, Contemporary Logic Design, Computational Reasoning, Algorithms, Systems Programming, Internet Economics, Entrepreneurship Foundations, Microeconomics

## Skills

**Languages** Java, Swift, JavaScript, Python, C, SQL, HTML & CSS, SASS

**Technologies** Git, XCode, UIKit, NodeJS, React, CircleCI, Heroku, PostgreSQL, LaTeX

## Experience

### Handshake

San Francisco, CA

Software Engineer, Intern

June 2019 - August 2019

- Led team's accessibility audit, prioritized features to be implemented, and created team's best practices for accessibility testing, and development
- Implemented support for VoiceOver and InvertColors to make company's iOS app more accessible to users who are blind or have low vision
- Migrated iOS app's authentication tokens from UserDefaults to Keychain without ending current user sessions, mitigating the app's vulnerabilities
- Leveraged knowledge in Git, iOS SDK, (CI) Continuous Integration, and (TDD) test driven development to handle bug fixes, perform code reviews, and re-factor Objective-C code to Swift

### McGraw Center for Teaching & Learning

Princeton, NJ

Digital Learning Lab Specialist

September 2017 - June 2018

- Led workshops and created tutorials for fellow students on creating personal websites and portfolios using GitHub Pages, Jekyll and SASS
- Instructed 20+ students per month on introductory computer science assignments, elementary Java usage, IDE basics, and clean coding practices

### SmartAsset

New York City, NY

Software Engineer, Intern

January 2018

- Developed data analytics program to validate SmartAsset's website by parsing application's requests using Java Regex, producing canonical list of urls accessed, and verifying each link against the site

## Leadership

### Princeton Undergraduate Student Government

Princeton, NJ

Class Secretary

September 2016 - June 2019

- Organized and designed large scale gear distributions, study breaks, dances, and alumni/networking events for the 1300+ members of the class, throughout every semester since having been elected freshman fall
- Increased turnout to Major Declaration Day 2018 by 300+ students, double the turnout of the years prior, by incorporating food trucks, faculty welcomes, free gear items and fun activities into the event
- Facilitated communications between University administration, faculty, staff and student body, ensuring the team's work reflected identity of the class

### Pace Center for Civic Engagement

Princeton, NJ

Community Action Fellow

March 2018 - December 2018

- Expanded week-long community service immersion programs in Newark, NJ to accommodate multiple groups of 100+ students, 25% more students than in previous years, by developing new partnerships with 30+ community partners .
- Reduced logistical complexity of managing 60+ drivers and their rental cars by restructuring the process of driver certification, rental car pickup/drop-off and car incident handling

### Community Service Interclub Council

Princeton, NJ

Head of Volunteers

February 2018 - April 2018

- Amassed 50% more volunteers than years prior and directly managed these 150 volunteers to run TruckFest's 19 food trucks and stations, generating over \$10,000 for local hunger relief organizations

## Projects

### Artificial Intelligence and Education Research

- Developed model to determine the student controllable factors which best predicted their academic performance with 81% accuracy by using Scikit-learn to apply logistic regression, support-vector machines, decision trees, and random forest classifiers to multiple datasets

### PrincetonEats

- Built RESTful web application for local restaurant directory and crowd-source review platform using Java Spark, PostgreSQL, Heroku, and JavaScript
- Prioritized's product's focus on reviews and ratings after conducting user research determining these features were most useful to 50% of users