Ben Musoke-Lubega

📞 (609) 480-2644 | ✉ bpmusokelubega@gmail.com | 🏠 bprinsta.github.io | ⭘ bprinsta | in bpmusokelubega

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