

# Abizar Bagasrawala • <https://abizar.me> • [abizar@u.northwestern.edu](mailto:abizar@u.northwestern.edu)

## SUMMARY

Computer Science student with 3.92 GPA. Experienced in full-stack engineering with a systems focus through coursework in databases, networking, and compilers. Recently interned at Walmart Labs in SF Bay Area and co-founded basketball analytics startup that now has 8 NCAA D1 clients

## EDUCATION

**Northwestern University** – BA / MS in Computer Science (3.92 / 4.0) Fall '16 – Fall '20

- **Coursework:** Algorithms, Databases, Networking, Scalable Architectures, Systems Programming in Rust, Code Transformation, Artificial Intelligence, Machine Learning, Game Development
- **Leadership:** Teaching Assistant for 3 Computer Science courses, International Peer Advisor

## EXPERIENCE

**IDEO – Incoming Fellow** • San Francisco, CA January '20

**Walmart Labs – Software Engineer Intern** • Sunnyvale, CA June – Sept '19

### MARKETPLACE APPLICATIONS: JAVASCRIPT

- Led engineering of mobile app amongst 4 engineers using React Native, Redux and Rxjs.
- Built JavaScript modules for authentication flow, push notifications, and data persistence.
- Conducted 20+ code reviews and led weekly demos to senior management.

### DATA ENGINEERING: JAVA

- Built Kafka data pipeline to persist 10 million rows daily, improving API usage analytics.
- Parallelized pipeline for 6x efficiency improvement.
- Built reusable Java library to query Apache Solr using combinations of facets.

**ISO Athletic – Co-Founder & Software Engineer** • Chicago, IL April '18 – June '19

- Co-founded startup to provide NCAA D1 basketball teams with analytics, used by 8 clients.
- Built web app for stat tracking from scratch using Vue, Node and PostgreSQL.
- Designed UI/UX for entire app, iterating based on customer feedback. [bit.ly/iso-ath](https://bit.ly/iso-ath)

**Northwestern CS Department – Researcher** • Evanston, IL March – June '19

- Designed and implemented data models for medical pricing datasets in MySQL.
- Built console applications to help patients find inexpensive services and reliable doctors.
- Utilized ML in Python to match symptom descriptions with hospital procedures. [bit.ly/nlp-med](https://bit.ly/nlp-med)

**Oscillations – Software Engineer (Remote)** • San Francisco, CA July '18 – April '19

- Built and deployed mobile AR experience for dance choreography using React Native and Redux.
- Translated high-level business requirements into technical implementation. [bit.ly/osci11ate](https://bit.ly/osci11ate)
- Implemented 3D graphics vector math, image recognition, and character animations.

## PROJECTS

**Deque** – Lock-free, parallelized deque in Rust faster than std lib on 64 threads. [bit.ly/lockdeg](https://bit.ly/lockdeg)

**LLVM Transformations** – C++ compiler pass. Placed 3rd in class competition of 20 teams. [bit.ly/trnfm](https://bit.ly/trnfm)

**Freelance** – Company website for Kellogg MBA School startup. [cocohealth.co](https://cocohealth.co)

**Server** – Node/Express RESTful server with performance monitoring and Mocha/Chai tests.

**Apps** – Food-sharing: React/Node/MongoDB [bit.ly/re1ct](https://bit.ly/re1ct) and Polling: React Native/GraphQL [bit.ly/re2ct](https://bit.ly/re2ct)

## SKILLS

**Languages:** JavaScript/ES6, Java, Rust, CSS, C++, Python, SQL. **Front-end:** React, React Native, Redux, RxJS. **Back-end:** Node, Spring Boot, GraphQL, MongoDB, Apache Kafka, Apache Solr.