# Abizar Bagasrawala

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#### **EDUCATION**

**Northwestern University** – BA / MS in Computer Science

Fall '16 – Fall '20 (Expected)

- **GPA**: 3.92 / 4.0
- Coursework: Algorithms, Databases, Networking, Scalable Architectures, Systems Programming in Rust, Code Transformation, Artificial Intelligence, Machine Learning, Game Development, DTR
- Teaching Assistant: Fundamentals of Programming, Human Computer Interaction

#### **EXPERIENCE**

IDEO – Incoming Fellow • San Francisco, CA

January '20

Walmart Labs – Software Engineer Intern • Sunnyvale, CA

Summer '19

- Led engineering of app amongst 4 engineers, utilizing React Native, Redux and Rxjs.
- Conducted 20+ code reviews and led weekly demos to senior management.
- Built JavaScript modules for authentication flow, push notifications, and data persistence.
- Built Kafka data pipeline in Java to persist million rows daily.
- Parallelized pipeline for 6x efficiency improvement.
- Built reusable Java library to query Apache Solr using combinations of facets.
- Wrote 5000+ lines of code in JavaScript and Java.

## ISO Athletic – Co-Founder & Software Engineer • Chicago, IL

April '18 - Present

- Co-founded startup to help NCAA basketball teams with analytics, used by 8 D1 teams.
- Built web app for stat tracking from scratch with 3 engineers, using Vue, Node and PostgreSQL.
- Designed UI/UX for entire app, iterating based on customer feedback. 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. <a href="mailto:bit.ly/nlp-med">bit.ly/nlp-med</a>

# 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.
- Implemented 3D graphics vector math, image recognition, and character animations.

## Coco Health – Software Engineer (Part-Time) • Evanston, IL

March – Dec '18

Designed, built and shipped company website for startup at Kellogg MBA School. cocohealth.co

# iNet-Web – Software Engineer Intern ● Milwaukee, WI

Summer '18

Created and shipped 3 custom websites for clients using Node, Stencil, JavaScript, and SCSS.

#### **PROJECTS**

Deque - Lock-free, parallelized deque in Rust, faster than std lib on 64 threads. bit.ly/lockdeq

**LLVM Transformations** – C++ compiler pass. Placed 3rd in class competition of 20 teams. bit.ly/trnfm

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

Apps – Food-sharing: React/Node/MongoDB bit.ly/re1ct and Polling: React Native/GraphQL 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.