

# Abizar Bagasrawala • <https://abizar.me> • abizar@u.northwestern.edu

## EDUCATION

**Northwestern University** – BA / MS in Computer Science (3.92 / 4.0) Sept '16 – March '21

- **Coursework:** Algorithms, Scalable Architectures, HCI Research, AI, ML, Statistical Language Modeling, Databases, Systems Programming in Rust, Compiler Analysis, Networking
- **Leadership:** Teaching Assistant for 3 Computer Science courses, International Peer Advisor

## EXPERIENCE

**Facebook** – **Software Engineer Intern** • Menlo Park, CA Sept '20 - Present

- Building a developer tool for Messenger feature developers to onboard onto the new Lightspeed architecture.

**Hatch** – **Kleiner Perkins Engineering Fellow** • San Francisco, CA June '20 - Sept '20

- Independently built an identity verification and screening service, collaborating directly with internal and external stakeholders.
- Led re-architecture of the internal automation pipeline to support new business requirements.
- Wrote 20,000+ lines of code and reviewed 30+ PRs. (Kotlin, PostgreSQL)

**IDEO** – **CoLab Fellow** • San Francisco, CA Jan '20

- Participated in one-week fellowship, designing to support local businesses during COVID.

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

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.

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 local device caching.
- Conducted 20+ code reviews and led weekly demos to senior management.

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

- Co-founded startup to provide basketball teams with analytics, used by 8 NCAA D1 clients.
- Designed UI/UX and built front-end for web app using Figma and VueJS. [bit.ly/iso-ath](https://bit.ly/iso-ath)

## PROJECTS

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

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

**MedPay** – NLP project to transform human language into healthcare codes [bit.ly/nlp-med](https://bit.ly/nlp-med)

**Oscillations** – Mobile AR experience to choreograph dances (React Native) [bit.ly/re2ct](https://bit.ly/re2ct)

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

**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, Kotlin, Java, SQL, Python, Rust, CSS. **Back-end:** Node, GraphQL, MongoDB, Apache Kafka, Spring Boot, Apache Solr. **Front-end:** React, React Native, Relay, Redux, RxJS.