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. **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.
- 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.