

Abizar Bagasrawala

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EDUCATION

Northwestern University – Combined Bachelors & Masters in Computer Science (Expected 2021)

- GPA: **3.92** / 4.0
- *Coursework*: Algorithms, Databases, Code Analysis and Transformation, Systems Programming in Rust, Artificial Intelligence, Machine Learning, Game Development, HCI
- *Teaching Assistant*: Fundamentals of Computer Programming, Human Computer Interaction
- *Research Experience*: Previously researched medical pricing datasets with Professor Dinda. Now researching crowdsourced delivery algorithms with Professor Zhang.

EXPERIENCE

Walmart Labs – Software Engineer Intern • Sunnyvale, CA (Summer 2019)

- Enabled new initiative with potential of \$2 Billion by collaborating with product, business, and engineering teams. Contributed 5000+ lines of code in total.
- Led engineering of cross-platform mobile app in React Native amongst team of four engineers. Delivered features such as push notifications, local device caching, and authentication.
- Increased efficiency of data pipeline 6X, reducing runtime from 300s to 50s, by using multithreading.
- Submitted contribution request to Walmart's open-source by building new Java library to query Apache Solr using combinations of facets.

ISO Athletic – Co-Founder and Software Engineer • Evanston, IL (April 2018 – Present)

- Acquired 8 Division I basketball teams as clients by co-founding company to let teams track stats and gain analytics.
- Architected and built full-stack web application containing 5000+ lines of code, using Vue.js, Node/Express, and PostgreSQL.
- Redesigned UI/UX of entire app, which helped onboard 2018 D1 champions, University of Villanova.

Oscillations – Software Engineer (Remote) • San Francisco, CA (June 2018 – April 2019)

- Single-handedly built and deployed mobile AR experience using React Native, allowing users to choreograph dances in real-time for 3D characters that rise from collectible cards.

iNet-Web – Software Engineering Intern • Waukesha, WI (Summer 2018)

- Worked in fast-paced agency to design, develop, and ship 3 new websites for clients using JS/Node.

Coco Health – Software Engineer (Part-time) • Evanston, IL (Spring 2018)

- Independently designed, built and shipped company website for counseling startup at the Kellogg School of Management. Automated bundling and deployment.

SELECTED PROJECTS

Lock-free Deque (Spring 2019) • Implemented algorithms from research paper to build lock-free double-ended queue in Rust faster than the standard library implementation when run on 64 threads.

Compiler Transformations (Spring 2019) • Built LLVM compiler pass in C++ to perform reaching definition analysis and constant folding for toy language. Placed 3rd in class competition of 20 teams.

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