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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

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. 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

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

Freelance – Company website for Kellogg MBA School startup. cocohealth.co

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.