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EDUCATION

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

- **Coursework:** Algorithms, Databases, Networking, Scalable Architectures, Systems Programming, Compiler Analysis, HCI Research, Artificial Intelligence, Machine Learning, Game Development
- **Leadership:** Teaching Assistant for 3 Computer Science courses, International Peer Advisor

EXPERIENCE

Facebook – Incoming Software Engineer Intern • Menlo Park, CA Sept '20

- Selected for Facebook's Fall Internship.

IDEO – Incoming Fellow • San Francisco, CA Jan '20

- Selected for IDEO's one-week fellowship out of 1000+ applicants.

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.
- Built web app from scratch using JavaScript, 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, Java, Python, SQL, C++, Rust, CSS. **Back-end:** Node, MongoDB, Apache Kafka, GraphQL, Spring Boot, Apache Solr. **Front-end:** React, React Native, Redux, RxJS.