

ZADDEEN BENAISSA

1522 W Chestnut St, Unit 1; Chicago, IL 60642 | (773) 541-0047
<http://zaddeen.github.io/> | zaddeenbenaissa2022@u.northwestern.edu

EDUCATION

Northwestern University, Evanston, IL

Master of Science in *Computer Science*

Anticipated December 2022

Bachelor of Science in *Computer Science*

Anticipated June 2022

Kellogg Certificate Program for Undergraduates in *Managerial Analytics*

Cumulative GPA: **3.877/4.00** | Dean's List: 7 of 9 quarters

Relevant Courses: Agile Software Development, Data Structures and Algorithms, Machine Learning, Distributed Systems, Code Analysis & Transformation, Human Computer Interaction, Scalable Software Architectures, Databases

SKILLS

Programming: C++, CSS, HTML, Java, JavaScript, Python, TypeScript (Advanced)

AMPL, C, C#, Golang, MATLAB, Object-Oriented Programming, R (Intermediate)

Software: AWS, Firebase, Git, Microsoft Office Suite (Word, Excel, PowerPoint), NumPy, React, STATA

EXPERIENCE

Homebase, Evanston, IL

Co-CTO

September 2020 - November 2021

- Manage a startup real-estate website in TypeScript for 1800+ Northwestern student users, connecting students directly with 40+ trusted landlords to significantly improve the off-campus housing search experience
- Write custom functions in Python to modify and analyze user data from Firebase and deploy a unique Express backend

Accenture, Chicago, IL

Advanced App Engineering Summer Analyst

June - August 2021

- Spearheaded an effort across business, quality assurance, and scrum teams to analyze 500+ automated test scripts for inefficiencies and redundancies to prevent developers from unnecessarily waiting for code approval
- Re-designed the entire existing test suite to slash test times by nearly 25% per pull request, saving 10 developer hours per day

Northwestern University Industrial Engineering and Management Department, Evanston, IL

Research Intern

March 2020 - June 2021

- Modeled and improved school districts' transportation systems by utilizing optimization software packages in Python
- Researched and developed innovative methods to identify bottlenecks and reduced optimization times by over 50%

PROJECTS

Agile Software Development, Final Project: Myelin Mobile, Evanston, IL

Programming Language: JavaScript (React Native)

May - June 2021

- Collaborated with 5 peers to develop "Myelin Mobile", a fully functioning platform to help patients, primary caretakers, and their care team simultaneously track their personalized care program
- Conducted weekly user testing and worked in tandem with a real client to create a React Native app in less than 5 weeks, including a Firebase backend for user authentication and storage as well as a Jest test suite for each component
- Organized semiweekly team meetings to create user stories and track velocity in line with agile development principles

Current News Search Engine, Evanston, IL

Programming Language: Java, JavaScript (React)

January 2021

- Implemented an ETL search engine in Java and deployed it to AWS where it autonomously crawled the web for news articles, parsed them into HTML documents for storage, and created an API to filter documents by given keywords
- Wrote a React App hosted on an S3 bucket to parse user queries and output relevant matches from the backend

Visualizing Sorting Algorithms, Chicago, IL

Programming Language: JavaScript (React)

July 2020

- Created a live React App showcasing visual representations of 6 popular sorting algorithms in real time along with detailed written descriptions of each algorithm's method and time complexity
- Programmed algorithms and dynamically loaded page in JavaScript, animated sorting through timed CSS changes

LEADERSHIP

Northwestern Computer Science Department – *Peer Mentor*

March 2021-Present

Northwestern Engineering Career Development - *Clerical Aide*

February 2020-Present

Northwestern Ultimate Frisbee Team - *Senior Webmaster*

September 2019-Present