ZADDEEN BENAISSA

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EDUCATION

Northwestern University, Evanston, IL
Master of Science in *Computer Science* — December 2022
Bachelor of Science in *Computer Science* — June 2022
Kellogg Certificate Program for Undergraduates in *Managerial Analytics*
Cumulative GPA: **3.90/4.00** | Dean's List: 9 of 11 quarters
Relevant Courses: Agile Software Development, Data Structures and Algorithms, Machine Learning, Distributed Systems, Code Analysis & Transformation, Computer Networking, 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: Angular, AWS, D3.js, Firebase, Git, Microsoft Office Suite, NumPy, React, React Native

EXPERIENCE

Google, Sunnyvale, CA
Software Engineer — September 2023 - Present
- Develop and maintain network infrastructure features for the Google Cloud Andromeda team
- Extend functionality and create new features in C++, maintain and contribute to continuous test suite in Python
- Collaborate extensively with teammates through daily standups, pair programming, and code reviews

Google, Mountain View, CA
Software Engineering Intern — June - September 2022
- Programmed a full-stack dashboard application from scratch to display a wealth of data about machine learning model files to over 100 internal users, hosted the dashboard on an internal job scheduling framework to run and update automatically
- Configured a Python backend server to parse model data from thousands of internal files, store the data in a globally distributed database, and serve the data using HTTP endpoints
- Designed an Angular frontend app to fetch data from the backend and display model information both in a tabular and tree format through D3.js, incorporated team member feedback to showcase the most relevant and important data possible

Homebase, Evanston, IL
Co-CTO — September 2020 - November 2021
- Managed 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
- Wrote 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

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 deliver 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 produce 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 provided 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

LEADERSHIP

Northwestern Ultimate Frisbee Team - *Senior Webmaster* — September 2019-Present
Northwestern Engineering Career Development - *Clerical Aide* — February 2020-April 2022
Northwestern Computer Science Department – *Peer Mentor* — March 2021-December 2021