

Robel Tegegne

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EDUCATION

NORTHERN ARIZONA UNIVERSITY

BS IN COMPUTER SCIENCE

Dec 2021 | Flagstaff, AZ

Dean's list 5/8 semesters

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms (Java)

Web and Mobile Development (JavaScript, -React.js, React Native, HTML/CSS)

Parallel Programming (C, CUDA)

Principles of Database Systems (MySQL)

Operating Systems (C)

Software Engineering (Java, JavaScript, -HTML/CSS)

Math Calculus I, II, III

Open Source Software Development

Artificial Intelligence (Python)

SKILLS

TECHNICAL SKILLS

Languages/Technologies

- Java • C++ • C • Python • JavaScript
- Node.js • React.js • React Native • REST
- MongoDB • MERN stack • MERNN stack
- Cloud computing AWS S3, EC2 • Firebase
- CUDA • MySQL • HTML/CSS

FIELDS OF INTEREST

- Full-Stack web and mobile app development
- Machine Learning
- Data Science

EXTRA PROJECTS

CONTENT-BASED RECOMMENDER MACHINE LEARNING | GITHUB

Feb 2022 - present

- Developing a content-based recommendation algorithm using **python**, **pytorch**, **pandas**, **numpy**
- Using IMDB movies dataset [1MB] and TikTok dataset [3GB]

AWARDS

- Northern Arizona University's International Excellence Scholarship 50,000+ USD Jan 2017 - Dec 2021.

TECHNICAL PROJECTS

DROGONIUM CRYPTOCURRENCY | GITHUB

July 2021 - present

- Developing a mineable blockchain cryptocurrency web app using **C++**, **Dragon framework**, and **React** to increase economic freedom
- Implements **Proof of Stake** consensus mechanism

BADGING SYSTEM CAPSTONE PROJECT - STATE FARM INSURANCE | GITHUB

Aug 2020 - April 2021

- **Capstone Team Lead** for half academic year and **lead back-end coder**
- Developed a badging system web app using **Express Node.js**, **React Native**, **MongoDB**, **REST API** to reward, recognise and encourage employees by enabling giving badge/certificate, and kudos points

I-BETOCH | GITHUB | [IBETOCH.COM](https://ibetoch.com)

Apr 2020 - July 2020

- Developed a housing finder web app using **Express Node.js**, **React.js**, **MongoDB**, **REST API** to simplify posting, and finding houses for Ethiopians
- Implemented basic **Authentication** and **Authorization**
- Integrated Google and Facebook **OAuth API**, **Google Map API**, **AWS S3**

OPERATING SYSTEM SIMULATOR | GITHUB

Jan 2020 - May 2020 | Flagstaff, AZ

- Completed an Operating System simulator project in **C** that focuses on CPU Scheduling Algorithms, Threads, Process Synchronization, and Memory Management,
- CPU Scheduling Algorithms such as First Come First Serve(FCFS), Shortest Remaining Time First(SRTF) and Round Robin(RR).

LEADERSHIP EXPERIENCE

NATIONAL SOCIETIES OF BLACK ENGINEERS - NSBE

| VICE-PRESIDENT

Jan 2020 - May 2021 | Flagstaff, AZ

- Working to increase the number of culturally responsible Black engineers who excel academically, succeed professionally, and Impact positively the community.
- Responsible for overseeing activities/events, develop retention and programs of interest for NSBE at NAU

I-CLUB | SOCIAL DIRECTOR

Jan 2020 - May 2021 | Flagstaff, AZ

- Helping international students to excel academically and socially by connecting them with locals and other international students.
- Responsible for planning club events, work with on and off campus agencies, planning and implementing games at general meetings.

ASSOCIATION FOR COMPUTER MACHINERY - ACM

| ACTIVE MEMBER

Jan 2018 - Present | Flagstaff, AZ

- Participating actively in club meetings and conferences to improve professional networking and career development.