

Ali Bichanga

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EDUCATION

Wellesley College

Wellesley, MA

Candidate for Bachelor of Arts in Computer Science, Minor in Psychology

September 2021 – May 2025

Relevant Coursework: Data Structures and Algorithms, Computer Systems, Mobile App Development, Theory of Computation, Project Engineering, Design Thinking and Innovation, Networks, Cybersecurity

SKILLS & INTERESTS

Technical: Python, Flask, GoLang, Javascript, JSON, Nodejs, React, Firebase, C, SQL, Bash Scripting, Linux

EXPERIENCE

Anchor Point Fellowship

Cape Town, South Africa

Software Engineering Intern

June 2024 – July 2024

- Developed essential functionality for a Crowdfarming platform using React.js and Node.js, contributing to a 20% increase in user engagement.
- Collaborated with cross-functional teams including product management and UI/UX design to translate business requirements into technical solutions.
- Provided Essential Tech Support to facilitate business function resulting in a 10% increase in efficiency.
- Conducted code reviews and implemented best practices to maintain code quality and ensure scalability.

Knapp Media and Technology Center

Wellesley College, MA

Production Consultant

October 2022 – Present

- Lead workshops on 3D printing, Arduino, Sewing and Embroidery for 100+ participants.
- Independently learned Adobe Photoshop and Illustrator and led 4 interactive workshops for 20+ people.
- Collaborate with other consultants to create dozens of posters and guides to educate patrons.

PROJECTS

Athlink App

- Designed and implemented an application using React Native and Firebase that allow athletes to connect based on skill levels and arrange meetups where they can play sports of their choosing.

RoomieMatch App

- Designed and implemented an application using Flask and MySQL database that allows Wellesley students to find housing and roommates in cities all around the world.
- Optimized the application for security by sanitizing database inputs and managing user accounts to ensure optimal user experience and high standards of information security.

Peer-toPeer File Sharing App

- Designed and Implemented a P2P File Sharing Application in Golang similar to Bittorrent.
- Implemented mechanisms for peers to join the network and distribute files using UDP and TCP protocols.
- Ensured extensive file distribution among peers to mitigate any network failures such as when peers suddenly leave the network.
- Operated a simple and easy to understand user interface through the command line interface.
- Wrote extensive documentation to describe how to use the application.

OWASP Juiceshop App

- Successfully completed 50% of Juiceshop challenges (and am still working on the rest), gaining hands-on training on the top 10 most threats to application security.