Vusumuzi Ngwazini

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EDUCATION   Oakwood University, Huntsville, Alabama   Bachelor of Computer Science
  Graduation: May 2019   GPA: 3.67

SKILLS

Programming Languages	Frameworks	Environments
C++ & Kotlin	React, Flutter, Bootstrap	Windows
Java & Python	JavaScript & Material-UI	Linux & Mac

PROFESSIONAL EXPERIENCE

Bhala - African Keyboard   *Software Engineer, Android*   *March 2021 – April 2021*

Bhala is an African-based startup featuring a multilingual keyboard that learns your writing style and makes writing in African languages faster by leveraging artificial intelligence designed for African languages.

- Doubled number of downloads on Google Play Store by implementing a sticker clipboard feature and integrating the WhatsApp Stickers API.
- Increased library compatibility and device performance by migrating codebase from Java to Kotlin.

Wala Digital Health   *Software Engineer, Full Stack*   *October 2020 – February 2021*

Harvard and MIT alumni-founded startup featuring a SaaS Software connecting hospitals and donors for critical life-saving transfusions.

- Developed a single-page application for online blood management through the software development life cycle, utilizing the React framework on the front end, and MongoDB and Strapi on the back end.
- Built core features & functionalities for minimal viable product based on client needs and feedback.
- Unit testing and REST API endpoint testing using Jest JavaScript testing framework.
- Software and system design, documentation, and integration.

Bantucracy   *Software Engineer, Frontend*   *August 2020 – October 2020*

Boston research-based tech & tech policy startup company with a strong focus on ubuntu ethics, technology and human rights.

- Built the landing page and main features of a minimal viable product from concept to deployment as specified by the UI/UX team and customer.
- Developed front-end components and assisted in back-end development of RESTful web service utilizing Bootstrap 4, React, Node.js, Express.js, MongoDB, Next.js, Material-UI, Strapi, and Docker.

Lockheed Martin Aeronautics   *Software Engineer, Backend*   *July 2019 – August 2020*

- Large-scale enterprise software design and feature development utilizing C++, Java, and Python in both Linux and Windows virtual environments.
- Graphical user interface tool development with Java Swing, JavaFX toolkits, & C++ QT Framework.
- Continuous integration pipelining, test automation, and version control using Bitbucket, Jira, & Jenkins.
- Coding sprints, team standup meetings, and peer code reviews leveraging Scrum Agile Framework.

PERSONAL PROJECTS

Check On Them - Android & iOS App   *Software Engineer, Cross Platform*   *June 2021 – Currently*

An open-source cross platform app that recommends people from your contacts so you can 'check on them'.

- Developing main features & designing layouts utilizing Flutter SDK & Android Studio.
- Expanding features based on user feedback and suggestions.

Khumbula - Image Matching Game   *Software Engineer, Android*   *January 2021 – Currently*

An open-source African themed matching game that sharpens our user's short-term memory by finding pairs of tiles in the shortest number of moves.

- Developing main activities and XML layouts for our published app utilizing Kotlin & Android Studio.

INTERNSHIPS

Oak Ridge National Laboratory　　　　*Intern, Machine Learning*　　　　*Spring 2019*
- Utilized high-speed sensor data to train neural networks to predict the amplitude of aperiodic signals.
- Visualized engine and neural network performance data to serve as a baseline for future development.

Florida Hospital, Advent Health　　　　*Intern, Backend*　　　　*Summer 2018*
- Developed SQL based program (Cerner Coding Language) to mine the Cerner API for data on mothers and their newborns to track hospital acquired infections (HAI) and cross-contamination rates.
- Visualized and analyzed data with Power BI and Oracle BI for Clinical Applications team.

Information Consultants　　　　*Intern*　　　　*Fall 2017 – Spring 2018*
- Built input forms and designed back-end workflows to automate business processes and push data to client databases.

Information Inclusion Institute　　　　*Intern*　　　　*Summer 2017*
- Utilized Python to mine for JSON data on the Twitter API & performed analysis utilizing R-Studio to measure the impact of a major social event through social media platforms in real time.

LEADERSHIP EXPERIENCE

National Society of Black Engineers　　　　*President*　　　　*Fall 2018 – Spring 2019*
- Tripled volunteering efforts, community involvement, and chapter membership by 266%.
- Secured sponsor for chapter, doubled fundraising efforts, and raised chapter budget by 100%.
- Launched long-term partnership with STEM Lab at local Boys & Girls club for engineering mentorship program.

African Student Association　　　　*Vice-President*　　　　*Fall 2018 – Spring 2019*
- Doubled volunteering efforts, community involvement, and chapter membership by 100%.
- Collaborated with local universities and shops to secure sponsors, authentic food vendors, fashion designers, and performers for our annual African Culture Showcase.

RESEARCH EXPERIENCE

Information Inclusion Institute　　　　*Researcher*　　　　*Summer 2017 – Winter 2018*
iConference 2018 – Research Paper & Poster
- *"Cognitively Salient Wayfinding Aids for Emergency First Responders"*　　　　*Published*

iConference 2019 - Research Paper & Poster
- *"Firefighters' Strategies for Processing Spatial Information During Emergency Rescue Searches"*　　*Published*

ACADEMIC ACHIEVEMENTS

AACE Outstanding Intern of the Year　　　　*Spring 2019*
Dean's List　　　　*Spring 2016 – Fall 2019*
Dr. Carmen Wright & Chandler Foundation Scholarship　　　　*Spring 2018*