ERIC KHUMALO

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EDUCATION

University of California, Berkeley   Aug 2020
Bachelor of Arts, Data Science with Domain Emphasis in Human Behavior and Psychology
- MasterCard Foundation Scholar - $300,000+ full ride scholarship

Coursework: Social Psychology, Probability for Data Science, Principles & Techniques of Data Science, Discrete Mathematics, Introduction to Database Systems, Artificial Intelligence, Data Structures and Algorithms, Linear Algebra and Differential Equations, Introduction to Economics, Ethics – Behind Data & Values,

Programming Languages: Java | Python| Scala | Spring | React, Redux & Flow | Unix | Ruby| HTML5/CSS3/SCSS | Mustache | Git | JavaScript | AngularJS | Scheme | SQL

Technologies: IntelliJ | VSCode| Jira | TCP/IP | Excel | ReviewBoard | Phabricator | Continuous Integration | TensorFlow | Jupyter Notebook

EXPERIENCE

Software Developer, Graduate School of Education, UC Berkeley, CA   Sep 2019 - Present
- Develops and maintains under Web-Based Inquiry Science Environment (WISE) a learning management system combining technology with education
- Conducts visitations at Albany Middle School to audit classes and get feedback on how the WISE architecture is used
- Works with researchers on building tools they need to evaluate student activity and performance.

Instructor, Introduction to Programming & Computer Science, Bulawayo, Zimbabwe   June-Aug 2019
2 Month Give back Programming Bootcamp Project with 200 students initial enrollment modelled after CS61A course at UC Berkeley
- Taught functional programming, data abstraction and object-oriented programming to working professionals, university, high school and gap year students.
- Used Open – Sourced labs and projects from a UC Berkeley Class to deliver half a semester worth of first-class knowledge while facing third world problems
- 70+ hours a week in course preparation, content delivery, grading and office hours to ensure maximum understanding of course material
- 42 out of 200 students completed the course, with 7 of these qualifying for their first all-expenses paid hackathon offered by the City of Victoria Falls, Zim

Research Computing Support Intern, Berkeley Research Computing, Berkeley, CA   Sep 2018 – Jan 2019
Supports UC Berkeley research with a coordinated set of services across a range of computation and data analysis needs.
- Provides direct support to campus researchers who need help building software for various compute environments
- Conducted evaluation and testing of internal cloud based computing and data solutions with those offered by Microsoft Azure
- Develops projects for dashboards, analytics and visualization tools for the team and user community.

Network Engineering Assistant, – Network Operations and Services, Berkeley, CA   Sep 2018 – Jan 2019
- Installed a wide range of network equipment across campus buildings.
- Kept network infrastructure up to date and secured
- Wrote and executed Python Scripts to configure routers, switches and wireless controllers

Software Engineering Intern, Twitter HQ, San Francisco, CA   May – Aug 2018
- Worked with React and Redux, Scala, JavaScript and other technologies on a **full-stack** implementation of internal anti-spam and anti-abuse tools.
- Scaled the user reporting and execution infrastructure to attain a 56 % increase in efficiency towards spam eradication.

Software Engineering Intern, Twitter HQ, San Francisco, CA   May – Aug 2017
- Build a pipeline to handle spammy reports on the platform for the AntiSpam team in Product Safety
- Improved an internal tool to help agents review and execute actions on spammy accounts
- Organized events as part of the Intern Program board and member of the Blackbirds diversity group.

Software Engineering Intern, Twitter HQ, San Francisco, CA   June – Sept 2016
- Worked with Ruby, Scala, JavaScript and other technologies on a **full-stack** implementation of internal anti-spam and anti-abuse tools. for the Account Security team in Product Safety, Bluebird Engineering Pillar.
- Merged over 30 unique bug fixes and project components into production in the Twitter Agent Tools code base.
- Utilized Ruby, Mustache, and Scala to track user devices and integrate with other Product Safety systems.
- Welcomed and hosted Congressman John Lewis for the MARCH Trilogy Discussion (https://www.periscope.tv/w/1OyKAbjPMlLGb)

Intern, American Embassy – EducationUSA, Zimbabwe   Aug 2014 – Jan 2016
American-style library and one-stop for those who want to study in the US and attain advice on the application process.
- Compiled scholarship information and developed handouts and educational advising resources.
- Advised and informed students and the public about educational opportunities in the U.S.

Teacher, Tsholotsho, Zimbabwe   May – Aug 2014, Jan-Jun 2015

Mathematics and Science Teacher at rural Tsholotsho High School, John Landa Nkomo High School and Mate Secondary School

- Achieved first 100 % Pass rate for Ordinary Level Physical Science in Tsholotsho District (Tsholotsho High, 2015.)
- Served as Team Manager and Trainer for the District Athletics Team.
- Taught Advanced Level Mathematics and Chemistry.

VOLUNTEER

Instructor, Girls in Robotics, Bulawayo   June to Aug 2019

- Partnered with a Davis Project Winner to teach Robotics to 20 High School Girls

Eric Khumalo Mentorship Program, San Francisco, CA   June 2016 − Present

- Awards laptops and other prizes to outstanding High School students at Nketa, Mzinyathini and Tsholotsho High Schools in Zimbabwe who exhibit academic excellence, give-back ethos, leadership skills and engagement. Offers mentorship to the talented youth and help them access opportunities.
- Offers Full Need Based Advanced Level Scholarship to mentees who exhibit so much potential including SAT registration fees.

Twitter for Good, San Francisco, CA   Summer 2016, 2017, 2018

- Served meals at Glide Shelter and also assemble 400+ #BacktoSchool backpacks to give to kids as part of National Night Out

Mathematics Tutor, Nketa High School, Bulawayo   Feb 2014 – Jun 2015

- Taught Advanced Level Mathematics and served as a consultant for the Math department to improve the pass rate.

AFFILIATIONS

- Founding Member and Director of I. T – ZimCode | Co-Founder of ExlAfrica | Twitter Blackbirds | LeaderShape Institute| Berkeley Pre-Engineering Program | Founding member and organizer for the African Young Achievers Awards held annually in the United States. | United States Achievers Program (USAP)

AWARDS AND HONORS

- MasterCard Foundation Scholarship | Accepted into the United States Student Achievers Program – USAP |Finalist in the Zimbabwe Old Mutual Mathematics Olympiad

OTHER SKILLS AND INTERESTS

- Languages: Ndebele/Zulu, Xhosa, Shona and English Speaker | Familiar with SiSwati, Venda, Kalanga, Sotho, KiSwahili
- I write poems and short articles which I publish on my website (http://erickhumalo.com/poetry)