

Elijah Zulu

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EDUCATION

Columbia University

C.P Davis Scholar | B.S in Computer Science

New York, NY

Sep 2019 – May 2023

WORK EXPERIENCE

Undergraduate Research Assistant

June 2020 – Present

Columbia University - Graphics and User Interfaces Lab

New York, NY

- Working under the Graphics lab to implement GNSS/SLAM approach to navigation using Augmented Reality
- Acted as one of the leads in developing an object recognition pipeline for Columbia Space Initiative's NASA SUITS challenge

Undergraduate Teaching Assistant

Jun. 2020 – Aug. 2020

Columbia University: School of Engineering and Applied Science

New York, NY

- Assisted in the teaching of an Introductory Robotics course
- Organized and Co-Taught an elective course focusing on the creative applications of technology
- Mentored high-school students preparing for college and careers in engineering

Video Editor

Sep. 2019 – Present

Columbia University Picker Center Digital Education Group

New York, NY

- Worked in the post production of a Climate Change documentary for the UNDP (United Nations Development Programme)
- Developed video "looks" for a variety of Columbia Affiliated and Non Affiliated clients
- Developed content for a MOOC (Massive Open Online Course) about using video case studies for education in Columbia's EMPA Program
- Ensured video resource servers kept running during the COVID-19 pandemic as everyone shifted to remote work

Animation and Motion Graphics Artist

Nov. 2018 – Jul. 2019

Zambian Institute for Sustainable Development - Media

Lusaka, Zambia

- Completed design, compositing and animation for over 100 shots for an upcoming TV Show
- Collaborated with artists developing looks for music videos

PUBLICATIONS

Beyond LunAR: An augmented reality UI for deep-space exploration missions

30 Nov 2020

- Co-authored under the guidance of Professor Steven K. Feiner and Columbia's CGUI Lab
- Awaiting peer review but accessible [here \(https://arxiv.org/abs/2011.14535\)](https://arxiv.org/abs/2011.14535)

PROJECTS

National Museum A.R Tour | C#, Unity3D, Vuforia SDK, EasyAR SDK

June 2018 – Present

- Developed an interactive Augmented Reality tour app for the Lusaka National Museum
- Worked with the Smithsonian Digitization Program to provide access to 3D models through the app
- Introduced the Museum to a newer, more tech savvy, generation increasing museum foot traffic

Spark AR | SparkAR, Javascript, Texture Mapping, 3D Modelling and Animation

October 2019 – Present

- Facebook SparkAR developer for the Instagram platform
- Regular contributor to the SparkAR community
- Garnered over 100K organic impressions
- Collaborated with other artist and creators to bring a new level of engagement between them and their audience using Augmented Reality

TECHNICAL SKILLS

Languages: C#, C/C++, Java, Python, JavaScript(VUE and React Native), HTML/CSS,

Developer Tools: Google Cloud Platform, Git, VS Code, Visual Studio, Bash

Design Skills: Adobe Creative Cloud, 3D Animation, 3D Modelling and Texturing, Motion Graphics, WordPress

Libraries: OpenCV, NumPy, Matplotlib, pandas