

Usman Khaliq

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EDUCATION

Stanford University

2018-2020

MS Design Impact

Capstone Project: Using human-centered design to help [transition of care](#) for pediatric congenital heart disease patients at the Stanford Children's Hospital. Mentored by David Kelley and Sean Follmer

Stanford Data Lab: Taught by Hadley Wickham(Chief Data Scientist at RStudio).

- Completed 50 real-world challenges in R drawn from work done by data experts

- Analyzed voter behavior during the 2016 US Presidential elections, the Opioid Crisis in the US, and climate change effects

Ghulam Ishaq Khan Institute of Engineering Science and Technology

BSc Computer Engineering

2011 -2015

RELEVANT WORK EXPERIENCE

Human Computer Interaction Group, Stanford University

Stanford, California

Research Assistant

Sept 2019 – Present

- Conducted research under [James Landay](#) on building physical and digital adaptations to enhance sustainability and well-being

Verily Life Sciences

Cambridge, Massachusetts

User Experience Research Intern

June 2019 – Sept 2019

- Conducted [research](#) to inform product development for a solution that aims to help healthcare providers to more efficiently identify, diagnose, treat and manage individuals with sleep apnea

Lucille Packard Children's Hospital Stanford

Stanford, California

Research Assistant

April 2019 – June 2019

- Expanded [target based care](#) at the Stanford Children's Hospital by developing a partially automated clustering algorithm to define patient cohorts based on EHR and Registry data
- Developed data dashboards for a [paper](#) that quantified the impact of Medicare for All on US Hospitals

Centre for Design Research, Stanford University

Ford - Stanford RX Car Project

Qualitative Researcher

January 2019 – March 2019

- Conducted qualitative assessment to determine whether the characteristics of an in-vehicle assistant impact a passenger's confidence in an autonomous vehicle's capabilities
- Currently publishing findings in a paper for the ACM Conference on [Automotive User Interfaces](#)

Intellectap

Freetown, Sierra Leone

Research Consultant

November 2017 – June 2018

Led the Government to People Payments [report](#) for the United Nations Capital Development Fund(UNCDF), in partnership with the Bank of Sierra Leone, the Ministry of Finance & Economic Development

- Established contact with all financial inclusion actors and conducted stakeholder interviews on the status of the digital financial services (DFS) ecosystem in Sierra Leone
- Designed survey methodology for government employees, managed team of 10 enumerators collecting data from 200 respondents across Sierra Leone.

iDT Labs

Freetown, Sierra Leone

Consultant, Financial Inclusion FinTech Lead

July 2015 - June 2018

Used human centered design to develop and launch services in healthcare, financial inclusion and open data

- Lead interaction and service designer for [miKashBoks](#), a mobile-money based conditional cash savings scheme for subsistence farmers implemented in Sierra Leone by the UNDP and the Bank of Sierra Leone
- Designed and developed [Firebolt](#), an SMS gateway that enabled small and medium enterprises (SMEs) and fintech startups in low resource environments to deliver SMS based services for their customers

IBM Research Africa

July 2016 – September 2016

Regional

Consultant

- Conducted proof of concept and pilot for an [infectious disease surveillance dashboard](#) developed by IBM Research Africa for USAID's *Fighting Ebola: a Grand Challenge for Development* award

Code for Sierra Leone

Freetown, Sierra Leone

Country Manager

July 2015 - June 2018

Initiated a community of civic coders, designers and policy advocates working on improving delivery of public services in Sierra Leone

- Designer and developer for [MWash](#), a water and sanitation point mapping platform that aimed to improve the delivery of water and sanitation services in Freetown, with support from The Engine Room's [Matchbox Program](#)
- Project Manager for MembaO, an online platform that allowed citizens to view the voting records of Parliamentarians in Sierra Leone. [Funded](#) by the Gates Foundation and the Omidyar Network

World Bank

Monrovia, Liberia

Consultant, Open Data

July 2017 – September 2017

- Co author and researcher for the World Bank's [Open Data Readiness Assessment Report](#) for Liberia
- Conducted an assessment on the Government of Liberia's readiness to evaluate, design and implement a nationwide open data initiative

SKILLS

Programming Languages: Python, R, Java, JavaScript, SQL, C++, HTML, CSS

Data Visualization Softwares: Tableau, Carto DB, d3.js

Prototyping Tools: Figma, Photoshop, Arduino Boards, Adafruit Feather Boards, Solidworks, Raspberry Pi

Other Tech Skills: Functional knowledge in machine learning, process mining, UI/UX design

Other Skills: Human Centered Design, Open Data, Government Reform, Impact Evaluations, Project Management