

# JUNEAD KHAN

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## EDUCATION

### The University of North Carolina at Chapel Hill

Chapel Hill, NC

B.S Computer Science and Biostatistics, Minor in Neuroscience. **GPA 3.7**

May 2023

**Honors:** Morehead-Cain Scholar (full-ride, merit based), Honors Carolina, Sutton Trust US Programme Scholar

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, SAS, R, Swift, SQL, C/C++, MATLAB, Assembly (MIPS), LaTeX

**Frameworks:** Kafka, Cassandra, Redis, React, NodeJS, ExpressJS, jQuery, Flask, Angular, Tidyverse, TensorFlow

**Technologies:** Azure, Google Cloud, AWS, Docker, Kubernetes, Jenkins, NoSQL, gRPC, Protobuf, Terraform

## EXPERIENCE

### Microsoft

Seattle, WA

*Software Engineer Intern - Azure Media Services*

May 2022 – Present

- Eliminated **competitive disadvantage** by developing an **Analytics SDK** for Shaka Player that collects **32** Quality of Experience, Video and Demographic metrics - matching competitor offerings from Mux Data and providing **6 additional** metrics. **Outperformed** initial target of 10 metrics by over **3x**.
- Improved **profitability** by reducing network bandwidth and storage requirements through optimizing data beacon design from 13kB for 10 beacons to just 4.6kB - marking a **65% reduction** in file size.
- Designed an end-to-end serverless Media Analytics solution that can collect **adaptive bitrate streaming** metrics, **ingress millions of events per second** and perform **low-latency** data processing to create a real-time dashboard by leveraging Azure Event Hubs, **Apache Kafka** and **Protobuf** serialization. (*Kafka, CosmosDB, NoSQL*)

### London School of Hygiene and Tropical Medicine

London, UK

*Associate Research Consultant*

Aug 2020 – Present

- Conducted **Latent Class Analysis** in **SAS** on NATSAL-3, the largest scientific study of sexual health in the world, to identify vulnerable groups within elderly population for clinical applications by the **UK** and **Chinese** governments.
- Communicated findings as **lead author** of paper published in the British Medical Journal. ([bit.ly/natsal-paper-jk](https://bit.ly/natsal-paper-jk))

### JPMorgan Chase & Co

Bournemouth, UK

*Software Engineer Intern - Architecture Governance*

Jun 2021 - Aug 2021

- Automated certification checks in application approval process by modernizing manual workflow via **REST APIs**, reducing processing time by **1200%** while improving governance procedures for audit. (*ADFS, Kerberos*)
- Developed automated solution for economic data reporting by building a **web scraping** tool and **SMTP** email client that will retire manual overhead, eliminate human error and reduce reporting time by **30x**.

### Google Cloud

Mountain View, CA (Remote)

*Associate Cloud Engineer Specialization*

Jun 2021 – Aug 2021

- Built a **DevOps** pipeline with **continuous integration** using Cloud Source Repositories, with **Docker** Images managed via Cloud Build and Container Registry, for a Python **Flask** web-app hosted on a **Compute Engine** VM.
- Deployed a **containerized** app on **nginx** server via **Kubernetes Engine** with integrated network **load balancing**

## LEADERSHIP

### Google Developer Students Club | Vice President (Co-Lead)

Chapel Hill, NC

- Grew membership by **400%** to become one of the largest tech clubs at UNC-Chapel Hill and the Research Triangle by maintaining relationships with over **100** institutions as part of Google DSC network for **North America**.

### Infinity Edits | Founder

Slough, UK

- Founded an e-commerce apparel store that sold internationally to over **25** countries across **3** continents by implementing a dropshipping business model via **Shopify** to achieve global fulfilment within **7** days.

## PROJECTS

[pixelpedia.io](https://pixelpedia.io) | *HTML/CSS, Javascript, React, Bootstrap, Mapbox GL JS, AWS S3, Firebase, OAuth*

- Created a full-stack web app for crowd-sourced photo spots using **React** and **Mapbox GL JS** as **GIS** mapping solution, leveraging scalability of **AWS (S3)** to support users across Europe, North America and Middle East.

**GPace - Grade/GPA Tracker** | *Swift, UserDefaults, SwiftUI*

- Designed and built an iOS application utilized by College Students from across the US/Canada with **5.0 Star rating** and over **12.8K impressions** on the Apple App Store, built using Swift and **SwiftUI**