Muhammad Kumail

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EDUCATION

National University of Sciences and Technology (NUST)   *Islamabad, Pakistan*
Bachelor's in Computer Science – CGPA: 3.5   *September 2018 - August 2022*

Hamza Army Public College & School   *Rawalpindi, Pakistan*
Intermediate in Pre-Engineering – 949/1100   *August 2016 - May 2018*
Primary Education and Matriculation – 990/1050   *March 2006 - May 2016*

WORK EXPERIENCE

Devsinc, Islamabad – Senior Software Engineer   *Apr 2022 - present*
- Developing full-stack and parallel systems in MERN, React Native, NextJs, GCP and AWS Cloud.
- Integrated data science and machine learning pipelines in real time on GCP to diagnose mental health problems in corporate workers.
- Working collaboratively with QAs and development team to complete comprehensive testing (Unit, Integration, E2E) on major software release.
- Growing teams rapidly, supervising quality of code, and building safe environment for diverse personalities
- Consistently recognized for excellent problem solving and analytical skills by stakeholders.

Quantaleap, Netherlands – SML Intern   *June 2021 – Aug 2021*
- Created workflows triggers using React ecosystem. Applied cost-benefit analysis to obtain security and compliance tests helping the product to scale 20% faster and saving 1 month of development cycle.
- Performed an in-depth comparison using fit-gap analysis between functional and non-functional requirements of building workflows, the results further saved 4 months of development time for the startup.
- Implemented CI/CD using GitHub Actions on Azure.
- Applied DevOps cycle (trigger-build-production) pipelining and unit testing using ARM configuration.

Afiniti, Lahore – Software QA Intern   *Aug 2020 - Sep 2020*
- Identified, reported, and documented bugs, errors, interoperability flaws and other issues within proprietary software applications.
- Documented thorough approach to all the assignments while adhering to compressed timelines. Completed all the assignments ahead of schedule.
- Worked collaboratively with QAs, development, and business groups to complete comprehensive testing on major software release.

Vyro.ai, NSTP – Graphic Design Intern   *Feb 2019 – Apr 2019*
- Made dataset for AI models including face and surrounding features.
- Applied automated scripting in photoshop and illustrator that reduced customization overhead by 60%.
- The major contributions helped the start-up to reach 40M+ downloads on play store in the following year

Friends Corporation, Rawalpindi – Digital Marketing Intern   *Jun 2016 – Jul 2016*
- Analyzed data from 25000 monthly active users and used outputs to guide marketing and product strategies.
- Increased average online engagement time by 2x, 25% decrease in drop off rate, and 3x shares on social media.

RESEARCH EXPERIENCE

Paybae.io (Demo)   *Jul 2021 – Jun 2022*
- Did extensive research to develop a blockchain based fintech product that provides vendors to integrate crypto payments at checkout.
- Built multilayered architecture on-chain and off-chain to minimize cost and transaction throughput.
- Used ERC-721 for tracking ownership and protecting reentrance. Applied decentralized authentication with private wallets. Handled idempotency and concurrency using serverless backend on AWS Lambda.
- Built web portal using NextJs for vendors to record their transactions, view analytics and exposing developer keys for site integration. Mobile wallet app for customers in React Native to pay by scanning a QR Code.
- Tech stack: Polygon, Solidity, AWS Lambda, Amplify, Cognito, DynamoDB, NextJs, React/React Native.

ROMI Lab, SEECS, NUST – Machine Learning Intern   *Apr 2020 – Jul 2020*
- Machine Learning Research Internship on a project mainly aimed to convert 2D images into 3D.
- Enumerated the 2D-3D normal prediction algorithm for image alignments. Applied CNN on Indoor images.
- Targeted benefits: object visualization for Urban cities, Generating/Evaluating building architectures.

ACTIVITIES

Beta - Microsoft Learn Std. Ambassador   *Aug 2020 – June 2022*
Introduced Azure technologies to students by hosting relevant activities. Mentored more than 500 candidates for their skill advancements and upbringing in tech career. Ultimately, I was apprehended with the title of Microsoft Innovative Educator by Microsoft.

AWS Campus Ambassador   *Apr 2020 - Mar 2021*
Hosted webinars based on AWS and cloud-based technologies, co-founded biggest AWS Community of Pakistan, collaborated with cohorts to conduct AWS Community meetups nationwide.

Millennium Fellowship 2019   *Aug - Dec 2019*
Selected among the **15%** candidates from over **7K+** applications. Attended leadership sessions powered by UNAI. Promoted SDG# 4 through the project 'Street Schools.' Impacted **50+** families. Recruited social entrepreneurs of the next cohort for MCN.

DSC Lead – NUST   *June 2020 – July 2021*
2nd ever lead from NUST and Pakistan's DSC Chapter. Lead the club for knowledge, learning and community building. Trained 2500+ students using Google Developers program. Polished the Google ecosystem of learning in Pakistan.

PROJECTS

Prepinn – An online LMS built using NextJs, React, Node/ExpressJs and MongoDB - Application educates underprivileged people for higher studies from all corners of the nation.

BaatCheet – An Android-based messenger app aimed to connect people's emotions with others. Coded in Java and Firebase.

MailPredictor – A MERN stack application capable of predicting certainty of an email to land on Inbox or Spam of Gmail, Outlook, AOL and Yahoo. The system used IMAP functionalities to read emails of a signed-up user.

Voice-Controlled Car - Made using Arduino board in C. Native coding boosted the performance by 10x. A user can give voice commands to navigate the car using a mobile app.

OTHER

Technical Skills: *AWS:* EC2, Lightsail, Lambda, Amplify, Chime; *Azure:* App service, DevOps, Static Apps; *GCP:* VM, App Engine, Colab; HTML, CSS, TailwindCSS, Bootstrap, Material UI, CoreUI, JavaScript, ReactJs, React Native, Redux, Redux Thunk, NextJs, Strapi, HeadlessCMS, Git, GitHub, Redis, MongoDB, NodeJS, MySql, NoSql, ScemanticUI, Python, CNN, Dense Layer, Mobinet, C/C++, PyTorch, Colab, Tensorflow, Docker
Soft Skills: Leadership, Time management, Effective Communication.
Certifications & Training: 13x Qwiklabs certified in advanced Machine learning, Data Science, BigQuery techniques; AWS training certified in DynamoDB, Serverless, ECS, ML; Performance Assessment at UNICEF
Languages: Fluent in English and Urdu.
Societies: *ACM:* Team Lead Marketing; *NUST International MUN:* Ushered Social Responsibility Program to enforce 5 SDGs. Initiatives advanced NUST in QS SDG ranking.
Awards: Mathometer winner (2017) at IST (5000+ participants), Microsoft Innovative Educator, represented Microsoft as a mentor at Dubhacks hackathon.