

Muhammad Kumail

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EDUCATION

National University of Sciences and Technology (NUST)

Bachelor's in Computer Science – CGPA: 3.49

Islamabad, Pakistan

September 2018 - August 2022

Hamza Army Public College & School

Intermediate in Pre-Engineering – 949/1100

Rawalpindi, Pakistan

August 2016 - May 2018

Primary Education and Matriculation – 990/1050

March 2006 - May 2016

WORK EXPERIENCE

Devsinc, Islamabad – Software Engineer

Apr 2022 - present

- Developing full-stack solutions in MERN stack, React Native, NextJs and AWS ecosystem.
- Communicating with clients for scrum support and building high scaled projects.
- 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.

Top-Rated Freelancer, Upwork – Full-Stack Engineer

Mar 2021 – Mar 2022

- Helped clients from all continents to build bigger, better, and more scalable solutions on NextJs and MERN.
- Discovered, debugged, and purged major bugs and pivoted a new path for the clients' products helping them to attain massive customer segment.
- Built premium customizable dynamic sites using HeadlessCMS, Strapi and NextJs for European clients.
- Raised UI/UX scores to 80% through better site design. Improved site Lighthouse scores from 10% to 90%.
- Made customer centric CRM solutions to enable automated interaction, growing clients' sales to 200%.

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.

Shift Crowd, UK – Project Manager

Dec 2020 – May 2021

- Developed and managed 2-enterprise level projects in MERN stack remotely in collaboration with a diverse team across Europe.
- Migrated sales failing WordPress sites of the client to React end-products using redux and rest APIs.
- Built the Scrum and automation guides for the development team to improve productivity.

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 *May 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. Since native coding it 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, ScematicUI, Python, CNN, Dense Layer, Mobinet, C/C++

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.