

EXPERIENCE

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| Senior Software Engineer | TechnoGenics | Aug 2020 – Present |
| Software Engineer | | |
| A SaaS product for security professionals | | |
| <ul style="list-style-type: none">• Optimized an existing microservice and improved its performance by more than 50%.• Built a custom search microservice for querying product entities in a unified interface.• Lead a team to build a data ingestion pipeline for the knowledgebase and built a subscription service on top of the pipeline.• Stack: Python; Django; Flask; FastAPI; MongoDB; Neo4J; PostgreSQL; NodeJS; ExpressJS; Rest/GraphQL; Google Cloud Platform (GCP); Kubernetes; Bitbucket; Jira; | | |
| Junior Research Scientist | TechnoGenics | Dec 2019 – Aug 2020 |
| Knowledgebase management system | | |
| <ul style="list-style-type: none">• Designed and developed an internal full stack system for management and maintenance of the knowledgebase.• Stack: Django; GraphQL; Neo4j; MongoDB; React; | | |
| Intern | Center of Speech and Language Technologies | Oct 2018 – Dec 2018 |
| <ul style="list-style-type: none">• Prepared a dataset for speech emotion recognition. The videos of Pakistani dramas taken from YouTube were clipped and tagged as angry, happy, sad, and neutral | | |
| Instructor, Volunteer | Makeistan | Sept 2018 – Oct 2018 |
| <ul style="list-style-type: none">• Delivered a 4-week short course on 3D Modelling with Blender to kids aged between 12 – 24 years. The course content included the basics of modeling, texturing, rigging, and animation | | |

EDUCATION

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|---|---|-----------------------------|
| Lahore, Pakistan | Information Technology University | Fall 2015 – Jun 2019 |
| <ul style="list-style-type: none">• Bachelor of Science (Computer Science). CGPA: 3.19• Coursework: Software Design Patterns and Frameworks; System Programming; Natural Language Processing; Speech processing; Blockchain; | | |
| Lahore, Pakistan | Punjab College of Information Technology | Fall 2013 – Mar 2015 |
| <ul style="list-style-type: none">• Intermediate (Computer Science). Aggregate: 76.6%• Coursework: Computer; Math; Physics | | |

OTHER PROJECTS

- **Ariadne JWT** (2020 – Present): An open-source JSON Web Token (JWT) authentication library for Ariadne GraphQL and Django
- **Neo4j GraphQL Py** (2020 – 2022): An open-source GraphQL to Cypher query execution layer for Neo4j and Python GraphQL implementations
- **Hum Kalaam** (2018 – 2019): Developed the first naturally intelligible Urdu Text to Speech system in the voices of Dr. Agha Ali Raza and the great Zia Moheyddin. [Python]

TECHNICAL SKILLS

- Proficient in Python.
- Experience in Django; Flask; FastAPI; Neo4j; MongoDB; PostgreSQL; GraphQL; React; Angular; NextJs; Golang; JavaScript; Linux OS; Google Cloud Platform (GCP); Docker; Kubernetes.
- PyCharm; Visual Studio; Unity; Android Studio; VMware; VirtualBox.