**Alamgir Munir Qazi**

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**PERSONAL STATEMENT**

I'm a PhD researcher at the University of Galway, Ireland, working at the intersection of Natural Language Processing (NLP) and Information Retrieval (IR). With 6+ years of industry experience, including as Senior Engineer @ Digitalocean, I bring an engineering perspective to AI research focused on efficiency and practical impact.

**TECHNICAL SKILLS**

**DevOps**

* **Cloud Platforms:** 
  + **Amazon Web Services (AWS):** EC2, EKS, Elastic Beanstalk, Route 53, S3, AWS CodePipeline.
  + **Google Cloud Platform (GCP):** GKE, Object Store, Cloud Build.
* **Orchestration:** Kubernetes (K8s/K3s).
* **Networking:** MetalLB, PowerDNS, dnsdist, KnotDNS, BIND9.
* **Automation**: Python, Bash.
* **Log Management**: ELK Stack, Clickhouse.
* **CI/CD:** Jenkins, AWS CodePipeline. Google Cloud Build.
* **Configuration Management & IaC**: Ansible.Terraform.
* **Messaging System:** Apache Kafka, ZeroMQ.

**Full Stack**

* **Front-end:** Angular, React.js (Next.js).
* **Back-end:** Node.js, Python, Go.
* **Databases:** MongoDB, Elasticsearch, Clickhouse, Redis, Postgresql.

**WORK HISTORY**

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| ***University of Galway***  2024 - present | **PhD in Computer Science**   * Working at the intersection of Natural Language Processing (NLP) and Information Retrieval (IR). * My research explores how retrieval-based approaches can outperform large generative models in fact verification. |
| ***Iotascale.io***  2022 - 2023 | **Technical Lead, DevOps**   * As a Team Lead, I play a pivotal role in designing the architecture, system design and development of various cutting-edge products catering to enterprises and telcos. * Contributed significantly to the solution design and deployment of six major products, demonstrating expertise in handling end-to-end software development processes. * I helped in migration of the entire VM-based infrastructure to an on-premise Kubernetes environment using K3S |
| **Tech Avenue Pvt Ltd**  2020 - 2022 | **Lead Software Engineer (Full Stack / DevOps)**   * I played a key role in overseeing a talented team of 9-12 resources and leading by example. * My responsibilities extended to infrastructure management and DevOps, ensuring seamless deployments. * Spearheading the DPI Core team, I led the development of packet capture tools (inline & passive) based on libpcap and DPDK, enabling network analysis and monitoring. * Played a substantial role in successfully delivering three major products, showcasing adeptness in managing end-to-end software development processes. |
| **Micromerger Pvt. Ltd**  2017 – 2020 | **Software Engineer (Full-stack / DevOps)**   * Oversaw the development of Falaya.com platform. As a team lead, I took on roles as an Angular developer and DevOps expert, successfully establishing a comprehensive pipeline and deploying entire application on AWS. * Development of a payment gateway application, taking charge of Frontend (Angular) development and deploying the entire infrastructure on Google Cloud using GKE. |

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| ***DigitalOcean***  2023 - 2024 | **Senior Engineer, DevOps**   * Wrote custom Playbooks in Ansible. * Setup Jenkins pipelines for CI/CD on AWS EKS. * Writing IAC using Terraform. * Python Flask framework. Wrote automated swagger API documentation tool. |

**QUALIFICATIONS**

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| **International Islamic University**  Islamabad  2013-2017 | **Bachelor of Science**  Computer Science (BSCS) |