

Wasiq Noor Ahmad Qasmi

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EDUCATION

Lahore University of Management Sciences

Sep 2017 - Apr 2019

Master of Science in Computer Science; CGPA: 3.41

Relevant Courses: Applied Probability, Design and Analysis of Algorithms, Distributed Systems, Network Security, Topics in Internet Research

University of Bradford

Aug 2012 - Apr 2016

Bachelor of Science in Computer Science; CGPA: 4.00

Relevant Courses: Cyber Security, Data Structures and Algorithms, Database Systems, Neural Networks and Fuzzy Systems

EXPERIENCE

Zong Research Lab, Lahore University of Management Sciences

Sep 2018 - Oct 2019

Research Assistant

- Built fault tolerant Mobility Management Entity for 5G networks using fast serialization schemes.
- Implement Edge-based Control Traffic Aggregator for highly bursty traffic from mobile devices using consistent hashing.

Cloud Computing Research Lab

June 2016 - Mar 2017

Research Assistant

- Implemented Disaster Recovery Solution for Cloud Orchestration - OpenStack
- Designed and tested the Disaster Recovery solution over the AWS and recovered EC2 instances in Australia and US.

PLUMgrid (now acquired by VMware)

Aug 2015 - Sep 2015

Intern

- Experienced the OpenStack APIs for services like loadbalancing and firewalls. Also, implemented a new service for monitoring of cloud resources.

PROJECTS

- **Fast-EPC**: Implemented a new cellular control plane to support highly bursty traffic patterns for 5G via kernel bypass. It was able to serve 10× faster than the traditional 4G network deployments.
- **Cellular Security**: Developed and executed 4 new cyber security attacks for 4G networks, and benchmarked the scale of attacks which resulted in delayed responses by upto 40×.
- **Fuse File System**: Developed a new file system for Linux using FUSE and LevelDB that was able to perform 10× faster than the traditional ext4.
- **Serendipity**: Developed a distributed file system, like Google File System, for private cloud deployments with different access levels and failure recovery protocols.
- **Breast Cancer Detection**: Developed a neural network for the detection of breast cancer from samples available by UCI Repository with accuracy upto 92%.
- **DRaaS**: Build a protocol as a service for detection of disastrous failures in large data-centers which would provide services to users from alternate recovery points.

PROGRAMMING SKILLS

Languages: Proficient in C/C++, Golang and Python. Prior experience in Rust, Java and SQL

Technologies: DPDK, AWS, Google App Engine, Git

AWARDS AND CERTIFICATES

Winner Speed Programming Competition 2016
Conducted Workshop on Google's AI Agent Alpha GO

Microsoft Certification in Programming with C#
Winner Speed Programming Competition 2015