

Mohammed Danish Shaikh

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Objective

Internship in software development. Interested in Cloud Computing, Databases, Distributed and Big Data Systems, Computer Networks and Machine Learning.

Education

University of Wisconsin - Madison

M.S. in Computer Science, expected August 2020

- Coursework: Advanced OS, Topics in Database Systems, Independent Study in Data Systems.

Visvesvaraya National Institute of Technology, Nagpur

B.Tech. in Computer Science, May 2016

- GPA: 9.88/10
- Thesis: Question annotator for community question answering forums.
- Projects: Implementation and analysis of document partitioned search engine, implementation of non-concurrent in memory database using n-ary B+ Trees.

Experience

University of Wisconsin - Madison, Dept. of Computer Sciences

Graduate Teaching Assistant, August 2018 - present

- Currently a TA for CS300 (Programming II - Java course)
- Responsibilities: Lab consulting hours, Assignment grading, Score aggregation and transfer from Zybooks to Canvas using scripts, Exam proctoring, Piazza support, Exam questions review.

InMobi Pvt. Ltd, Bangalore, India

Data SRE, November 2016 - July 2018

- **Nimbus**: Migration of local data center into Microsoft Azure. Involved in benchmarking performance in cloud, capacity planning, bootstrapping and migration of Aerospike, PostgreSQL, MySQL and Druid database servers.
- **GDPR**: Ensuring GDPR compliance across Database stack. Implemented access control policies in production databases like Aerospike in order to make them GDPR compliant.
- **Goldrush**: Migration of master data center into another local data center. Involved in migration of around 150 OLTP, OLAP and NoSQL database servers.
- **Automation**: Contributed to automation of day-to-day maintenance activities of OLTP, OLAP and NoSQL databases like creation of databases and clusters, backup, setup of replication, installation and configuration of packages and other operational tasks using Bash, Python, Puppet and Chef.

- **Monitoring:** Contributed to monitoring of availability, performance and several other important aspects of production databases using Diamond to collect and emit metrics, Graphite to centrally accumulate metrics, Nagios to read and alert based on the configured critical values of metrics and Grafana to read and plot metric graphs.
- **NoSQL in AWS:** Benchmarked performance, did capacity planning and setup Aerospike clusters in AWS.
- Developed logs analyzer using Python that parses PostgreSQL query logs in order to generate (Query Type, User, Table, Database) access HTML reports in real-time.
- Completed Aerospike advanced training AS102 for administration and operations.

MAQ Software Pvt. Ltd, Hyderabad, India

Software Engineer Intern, May 2015 - July 2015

- Worked on frontend of a Business Intelligence project debugging and resolving reporting issue
- Technology used: Microsoft Visual Studio, Html5, Css3, jQuery, Sharepoint Designer, SQL Server Management Studio.

Technical Skills

Programming languages: C, Java, Python, R, Bash, C++

Databases: PostgreSQL, MySQL, Aerospike, Vertica, Druid

Monitoring tools: Nagios, Diamond, Grafana, Graphite, PagerDuty

Infrastructure management tools: Puppet, Chef

Web development tools: HTML, CSS, Javascript, jQuery, Django, Bootstrap

Operating Systems: Linux, Windows, MacOS

Awards and Honors

Received guaranteed financial assistance and special CS scholarship for pursuing PhD in Computer Sciences at University of Wisconsin - Madison.

Recipient of Sir Visvesvaraya Gold Medal for highest CGPA amongst all disciplines of B.Tech programmes at Visvesvaraya National Institute Of Technology, Nagpur (Class of 2016).

Invited by Shri Pranab Mukherjee, the former President of India for attending the NIT Scholars In-Residence programme held at Rashtrapati Bhavan from 11th April, 2015 to 17th April, 2015.

Interests

Playing soccer, gymming (interrelating science with weightlifting), cooking.