M. RAFAY ALEEM

(+971) 558-468-033 http://mrafayaleem.com mrafayaleem@gmail.com

EMPLOYMENT

Software Engineer Dubizzle OLX January 2016 - Present

- Wrote a Python library to convert Python class definitions to XSD schema and do XML validations and transformations.
- Wrote small Spark MapReduce task using Apache Kafka as data source to build live trends on the site.
- Integrated third-party service providers with the website and the payment gateway.
- Initiated and set up Dubizzle engineering blog.

Junior Software Engineer

Dubizzle OLX

June 2014 - December 2015

- Promoted to Software Engineer in January 2016.
- Re-wrote archiving of old ads to take away the load from the main DB. Used PostgreSQL jsonb with Django to allow for arbitrary dumps on archive tables.
- Performed massive DB migrations on production MySQL and slaves using Percona Toolkit with zero downtime.
- Responsible for managing team releases of the website on a day to day basis.
- Improved and optimized our in-house image uploading service by leveraging caching and multi-threaded IO.
- Migrated our payment gateway to comply with PCI DSS regulations v3.0.
- Worked on migrating the site from Django 1.4 to 1.7.10.

Software Development Intern KTH Applied Information Security Lab

June 2013 – August 2013

- Implemented OpenStack Swift object storage encryption using PyCrypto Python Cryptography Toolkit.
- Learned to use several Python debugging tools to debug OpenStack Swift.

Chief Coordinator

NUST Game Development Club

April 2013 - May 2013

- Organized seminars and campus talks by inviting industry leaders such as we.R.play and Mobilink.

TECHNICAL EXPERIENCE

Projects

- **kafka-jython** (2016). High level Kafka consumer written in Jython.
- **simple-crawler** (2016). Web-crawling framework written in Python. Explores multi-threaded MapReduce paradigm for exhaustive crawling across multiple pages.
- **gdx-sqlite** (2014). Cross-platform Libgdx extension for SQLite database handling written in Java. Provides a unified method to handle database transactions across multiple platforms.

EDUCATION

Islamabad, Pakistan

SEECS, NUST

Fall 2010 - June 2014

- B.SE. in Software Engineering, June 2014. GPA: 3.20
- Undergraduate Coursework: Applied Parallel Computing, Operating Systems, Computer Networks, Network Security, Computer Graphics, Algorithms, Databases.

ADDITIONAL EXPERIENCE AND AWARDS

Winner, Punjab Youth Festival Game Development Competition (2012): Won the game development competition for creating an Android game called Fruit Filch.

Second Prize, Mobilink Game Development Competition (2012): Awarded 2nd prize for creating a single player Android game.

Languages and Technologies

Python; Jython; Java; SQL; XSLT; XML (XSD) Schema

IntelliJ; Eclipse; Redis; Memcache; Apache Kafka; Percona; Django; AWS