

# ADIL Z. ANSARI

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## PROFESSIONAL EXPERIENCE

### Credit Karma

June 2016 - Present

#### Platform Infrastructure Engineer

- Working on the platform security team primarily writing low latency and async services for auth, identity, data security and access management.
- Migrated and scaled a locally running service to a dockerized remote cluster to serve 3 million requests/minute, maintaining a SLA of 40 ms.
- Developed a realtime fault-tolerant data re-encryption service to enhance data security for 250 TB of MySQL data.
- Driving a cloud migration initiative that requires coordination among multiple Platform and Infrastructure teams.
- Stack: Scala, PHP, Python, MySQL, Finagle, Thrift, TCP, Akka streams, Kafka, Docker.

### Chartboost

April 2014 - June 2016

#### Software Engineer

- Re-engineered and maintained critical REST based backend services using Flask.
- Wrote new video encoding pipeline which resulted in >20% decrease in bandwidth consumption and 6%-9% increase in revenue through videos.
- Developed data analysis tools for business management.
- Stack: Python, PHP, Javascript, MongoDB, Redis, Hive, Celery.

### Samsung Telecommunications America

May 2013 - Aug. 2013

#### Software Engineering Intern

- Developed Object Oriented code to port the existing framework onto Android networking library, Volley.
- Enhanced the execution of JSON/Bitmap REST calls using Volley's in-memory and disk caching.

### eGain Communications Pvt. Ltd.

July 2011 - July 2012

#### Software Testing Engineer

- Led testing efforts as a primary resource on Cobrowse project for global clients like Statefarm, USA.
- Developed an internal knowledge base portal to ensure better collaboration and quick disposal of information.

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## SKILLS

- **Software Development:** Agile development, Software Design Patterns, Project management and Leadership.
- **Programming:** Scala, Python, JAVA, php, C, MySQL, NoSQL, MATLAB, HTML,  $\LaTeX$
- **Platforms:** Finagle, Akka, Android, Hadoop MapReduce, Hive, Apache Storm.
- **Operating Systems:** UNIX, GNU/Linux, Win32.
- Familiarity with Threads, Sockets, Async programming, Reactive systems, TCP/IP, REST, Git, Celery.

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## EDUCATION

### University at Buffalo, The State University of New York

GPA: 3.3/4.0

Master of Science in Computer Science

Dec. 2013

#### *Relevant Coursework:*

Analysis of Algorithms	Operating Systems	Distributed and Parallel Processing
Distributed Systems	Networking Concepts	Data Intensive Computing

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## PROJECTS

### Python Scribe Logger ([https://pypi.python.org/pypi/scribe\\_logger](https://pypi.python.org/pypi/scribe_logger))

2015

- A low level interface for writing to Scribe, enabling real time streaming of aggregated log data.
- A log handler which plays nicely with Python's logging facilities.
- Averaged 1000 downloads per month once.

### Cloud Computing Applications (JAVA, Hadoop, MapReduce, Apache Storm)

Coursera 2015

- Aggregated a dataset of 6 million tweets & implemented MapReduce algorithms for word, #tag and @counts.
- Performed similar analysis using Apache Storm and implemented page rank algorithm on the dataset.

### Amazon's Mini Dynamo (JAVA, Android, Multithreading, Distributed Systems)

Spring 2013

- Developed a stripped-down version of Dynamo, a backend storage with real time node joins.
- Implemented ID space partitioning and applied ring based routing scheme for load distribution.
- Quorum based replicated key-value storage with failure handling.

### Multithreaded Web Server (C, Unix, Multithreading)

Fall 2012

- Designed a queuing and scheduler module on separate thread and dispatcher module using thread pool.
- Implemented Shortest Job First and First Come First Serve CPU scheduling policies to serve the requests.

### Peer to Peer file sharing system (JAVA, Multithreading, Socket Programming)

Fall 2012

- Decentralized p2p distributed file sharing program prototyped and implemented on Gnutella protocol.
- Search query is flooded through network, and a central routing table is maintained for all peer activities.
- Nodes communicated over TCP alongwith real time traffic monitoring.

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## CERTIFICATIONS

Agile project management - UC Berkeley Extension

In Progress

Sun Microsystems certified JAVA Web Application Developer

July 2011

Oracle Certified Professional, JAVA SE 6 Programmer

Jan 2011