MUAZ RAHMAN

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EDUCATION

Washington, DC   **George Washington University**   Fall 2011 - May 2015
- B.S Major in Computer Engineering, Minor in Computer Science.
- Coursework: Algorithms, Data Structures, Operating Systems, Mobile Development, Software Engineering, Computer Networks, Computer Architecture and Design, Computer Organization, Embedded Systems, Microcontrollers

WORK EXPERIENCE

Software Development Engineer II   **Amazon**   Oct 2017 – Present
- Supply Chain Optimization Technologies Team.
- [In Progress] Responsible for scaling and stress testing all major team services and fleets for Prime Day 2018.
- [In Progress] Responsible for working with intern to develop algorithm that successfully models transportation network in graphical format and using partitioning libraries to result in least number of overlaps to interact with internal Xpress solver.
- Developed self-correcting service that adjusts forecasted shipment count biases based on custom statistical algorithms and models. Feeds into larger service that saves on cost upwards of $1M+ per week.
- Developed feature to secure and remove any critical and restricted customer related informations in services without compromising on latency or throughput in order to maintain customer data integrity and allow for completion of internal security certifications.

Software Development Engineer I   **Amazon**   Aug 2015 – Oct 2017
- Supply Chain Optimization Technologies Team.
- Developed self-troubleshooting service for any unassigned shipment during the fulfillment process. Major tool for frontline support engineers to improve turnaround times leading to less engineer debugging hours and tickets cut against team. Solution rates upwards of 60-80% and growing.
- Developed a rapid high-throughput system that feeds critical service data points from application to query-able data warehousing solutions and streaming service in near real-time. Supports thousands of transactions per second, and ability to horizontally and vertically scale during peak hours.
- Significantly improved latency times between two Tier-1 services for real-time interactions to get latest network capacity configurations. Developed custom normalization algorithm leading to 3x reduction in overall latencies, garbage collection, and network traffic.

Lead Android Engineer   **Sandboxx**   Jan 2015 – Aug 2015
- Developed from inception company's flagship Android application, a military lifestyle app.
- Ability to digitally send physical letters with captured images to family and friends enlisted in boot camp.
- Live feed with image and text posts, feature to search based on previously served-on units, etc.
- In Google play store, serving over 5000+ users and downloads over 15k+.

TECHNICAL EXPERIENCE

Personal Projects (more at github.com/muazra):

- **Keyless Entry System** [Senior Design]: Smart home technology to allow wireless locking and unlocking via unique facial recognition algorithms. Interfaced using Android & web application. Backend built via Flask & MongoDB with RESTful API based design.

- **Synchronous** [Mobile Development Course]: Android app that allows users to save their contact cards and share across other android devices based on proximity. Integration with Parse to maintain user data and ensure location accuracies.

Languages and Technologies:

- Java (advanced), C, Ruby, Python, HTML, CSS (proficient), Python, SQL (prior experience).
- Intelli-J, Git (advanced), Android Studios, Eclipse, PyCharm (proficient),
- AWS Technologies: SNS, SQS, S3, Kinesis, Redshift (advanced), VPC, CloudWatch, DynamoDB (proficient).