Mayank Kataruka

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Education

Arizona State University, MS in Computer Software Engineering, Aug 2019 – May 2021 *Graduate Student Assistant for Foundation of Software Engineering*	**3.9/4**
Heritage Institute of Technology, BTech in Computer Science, Jul 2013 – Jul 2017	**8.1/10**

Professional Experience

Amazon, Software Development Engineering Intern, Seattle, WA, US, May 2020 – Aug 2020
- Built Experiment Tracker that tracks machine learning experiment run by Forecasting team through SageMaker API and Scala
- Reduced employee hour by **~144 employee-hours/year**

Ribbon Communication, Software Development Engineer, KA, India, Jul 2017 – Jul 2019
- Worked on Session Border Controller Product which involve real-time telecom voice over IP call scenarios.
- Built feature named multiple early dialog, which is used by more than **70%** of the customers worldwide.
- Reduced memory corruption and leaks by **60%** which increased the product efficiency indirectly.
- Automated the finding of all static memory issues which reduced developer time by **6 hours** per feature.
- Built serialization tool that was used for **critical P1 issues** and Operating System upgrade issues.
- Migrated Operating System from SUSE Linux to CentOS making the product more **security hardened**

Open Source Contribution – Microsoft vcpkg, Google Chrome web.dev, Apache dubbo

Academic Projects

- **Rancho** - Developed new Programming Language & Compiler using Prolog.
- **Geo-Spatial Query** - Determine hot-zone, top pick up location from 1B record in New York. Apache Spark, Hadoop, Scala.
- **Path Finding Visualization -** Visualizing various algorithms like A*, BFS, DFS using Swing AWT and JAVA.
- **Recommendation Engine** - Recommend movies using matrix factorization, SVD, KNN, Neural Collaborative filtering.
- **COVID-19 -** Track COVID – 19 outbreaks for all countries. Python, Django.
- **Tweet Analysis-** Visualize trending tweets using Kafka and Spark Streaming.
- **Face Recognition Chat -** HOG - face detection, Face Landmark estimation, Open Face - face recognition, Node.js, Mongo DB.
- **Data Visualization** - Visualize Gmail inbox traffic analysis over time with millions of data categorized.
- **Foodex** - Android app for an office environment for ordering cafeteria food from desk, both client and server using Firebase.
- **Augmented Reality Sudoku** - Open the web-cam, show sudoku grid, get the solution.
- **Alexa Skill –** Help pre-onboarding intern with reminders and leadership principle.

Technical Skills

- **Problem Solving skills: Data Structures and Algorithm**
- **Language/Scripting/DB:** Java, C, Scala, Python, JS, Shell, Perl, MySQL, Oracle, PL-SQL, Postgres, Mongo DB
- **Web-dev & frameworks:** .NET, PHP, JSP, Servlet, JDBC, NodeJS, Socket.io, Spring, Flask.
- **Tools:** Wireshark, Android Studio, Eclipse, Visual Studio, Maven, Gradle, cscope, ctags, git, Putty, JIRA
- **AWS:** EC2, S3, RDS, RedShift, DynamoDB, SageMaker, EMR, Athena, CloudWatch, Kinesis

Certification & Achievement & Volunteering

- Rank 1 all over India for the best Web Development project while training from Globsyn 2016.
- Dream Team award and Faculty Choice award from Globsyn 2016 for JSP Servlet project.
- All India Rank 1 in National Graphic Championship organized by Silver Zone among 2500 schools.
- Among top 50 in an online merit contest Aptitude test 2015 consecutively for two years within 200 colleges.
- Taught computer and mathematics to more than 100 underprivileged children for more than 4 years.