Mayank Kataruka

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Education

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

Professional Experience

SDE Intern, Amazon, Seattle, US, May 2020 - Aug 2020
‣ Demand Forecasting team that runs machine learning experiments to forecast products in supply chain cycle.
‣ Built Experiment Tracker, tracking each experiment, hyperparameters & configs using AWS SageMaker, EMR, S3, AWS API, Scala.
‣ Reduced employee hour immensely spent in tracking experiments, configs and hyperparameters.

SDE, Ribbon Communication, Bangalore, India, Jul 2017 - Jul 2019
Application Development: Codebase – Shell, Perl, Java, C/C++, Perl, VCS - git
‣ Worked on SBC Product, built features, resolved customer issues involving real-time network SIP call scenarios, OS & DB issues.
‣ Reduced memory corruption, leaks by **30%**, resolved performance, load scenarios – good hold on in-depth **debugging skills**.
‣ Built serialization tool used for **critical P1 issues**, OS upgrade and Perl scripts that automate tasks such as finding all static memory corruption (coverity) issues before every release and assigning it to a specific developer, **helping smooth releases**.
Platform Development:
‣ Migrated Operating System for the product from Suse Linux to Centos, more security-hardened product.
‣ Owned the responsibility in full application installation and upgrade on top of migrated CentOS.

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 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 Application for an office environment for ordering cafeteria food from desk, both client and server. 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, JS, Shell, Perl, MySQL, Oracle, PL-SQL, Postgres, Mongo DB
‣ **Web-dev & frameworks:** .NET, PHP, JSP, Servlet, JDBC, NodeJS, Socket.io, Spring, Flask, html, CSS, ajax, jQuery, REST
‣ **Tools:** Wireshark, Android Studio, Eclipse, Visual Studio, Maven, Gradle, cscope, ctags, git, Putty, JIRA
‣ **AWS:** EC2, S3, RDS, RedShift, DynamoDB, SageMaker, EMR, Athena, Glue, CloudWatch, Kinesis
‣ **Data Science and Machine Learning Skills :** Python, Data Visualization, K means, Classification, Regression, Probability, Numpy, Pandas, matplotlib, SVD.

Certification & Achievement

‣ 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