PAROMA SENGUPTA

Paroma Sengupta - LinkedIn
Paroma Sengupta - GitHub

Contact : 412.557.1158
Email: itsparoma@gmail.com

PROFESSIONAL EXPERIENCE

ADOBE SYSTEMS CORPORATION, SAN JOSE, USA   August 2017 - Present
Software Engineer – Adobe Device Graph
- Developed **Scala** components that analyses and clusters about 200 million devices for better targeted advertisement
- Developed and improvised algorithms for connecting and creating graph for data which is distributed in multiple machines
- Automated the set up and control of the entire big data infrastructure in cloud using **python** scripts. Debugging and fixing infrastructure and managing petabytes of data that is continuously scaling up by around 5% every month
- Developing real time stitching of device information from more than 200 million devices using **Flink** technologies
- Involved in analyzing data through machine learning algorithms to discover the hidden information that exists in the data

ADOBE SYSTEMS CORPORATION, NEW YORK, USA
Backend Engineer – Audience Manager   March 2016 - July 2017
- Architected, coded and tested enterprise **Java/SQL** code executed in Adobe's Audience Manager Product that results in million dollar contracts for Adobe**. Spring framework** was used for developing the **Rest API's**.
- Worked with Product Managers, Scrum Masters, UI Designers, engineering teams to successfully deliver features.
- Managed the incident reporting using JIRA. Debugged the incidents on-time and closed them (Scrum fixes) thus ensuring increased customer satisfaction. Used **Jenkins** for effective CI/CD pipeline management.
- Implemented interactive documentation of the RESTful APIs using **Swagger** framework resulting in saving time for the documentation team. Actively use **GitHub** for maintaining the code base effectively.

CARNEGIE MELLON UNIVERSITY - FollowPrice Recommendation System
Software Engineer   August 2015 - December 2015
- Mentored a team of 5 people for integrating recommendation system software in Follow Price (a Portuguese startup) website. This recommendation engine is estimated to increase the revenue of FollowPrice by 20%
- Established models using algorithms: association rules, decision tree in technologies such as **R, Python and Java**

INFORMATICA, REDWOOD CITY, USA
Summer Intern – Native Systems   May 2015 - August 2015
- Implemented utility, using **Java and Maven**, for comparing the dataset generated from test cases against a baseline dataset. This helped in easy automation of regression cases and reduced the test case run time to 2-3 seconds
- Implemented automation in **Test NG** framework thereby reducing the testing time by more than 50%

INFOSYS LTD, **INDIA**
Software Engineer – Financial Services   December 2009 - May 2014
- Developed the API layer using **Java**. It interacted with the backend (MySQL) to fetch results and passed it to the UI layer. This abstraction helped in easy system maintenance and enhanced the debugging process considerably
- Introduced a dashboard, using **agile methodology**, for increasing the efficiency of bank's equity managers by 50%
- Analyzed and reengineered software components to **remove performance bottlenecks** of the client system

SKILLS
- **Programming Languages: JAVA, Scala,** Python, Bash, R, XML
- **Cloud Infrastructure**: **Spark,** Hadoop, MapReduce, Hive, Auto Scaling, Load Balancing, utilization of AWS and Azure SDKs
- **Applications/Technologies**: **J2EE, SpringFramework,** TestNG, JUnit, JMS(Messaging), Linux, Maven, .NET, Jenkins
- **Database Management Systems**: **MySQL**, HBase, Oracle, DynamoDB, PostgreSQL
- **Web Technologies:** REST, SOAP, JMS, Java RMI, Android framework, JSON, Servlets, MVC

EDUCATION
Carnegie Mellon University, Pittsburgh, PA   December 2015
Master of Information Systems Management
West Bengal University of Technology, India   July 2009
Applied Electronics and Instrumentation Engineering

LEADERSHIP AND PROJECT MANAGEMENT
- Led a team of 6 people resulting in quality system modules implementation for a million GBP project
- Created traceability matrix thus increasing **the efficiency of the project management by 25%** of a 1.2M GBP project

ACHIEVEMENTS
- Co-owner of the Adobe New York CS, Algorithm Enthusiasts group   August 2016 - Present
- Rated amongst top 10% employees (CRR1+), Infosys LTD   2013 - 2014
- Taught mathematics to under privileged children at Akanksha Foundation   2011 - 2012