

# PAROMA SENGUPTA

[Paroma Sengupta - LinkedIn](#)  
[Paroma Sengupta - GitHub](#)  
[Paroma Sengupta - Website](#)

Contact : 412.557.1158  
Email: [itsparoma@gmail.com](mailto: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 APIs**.
- 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