# Kushal Roy

kushall.roy@gmail.com | +91 9686583136

## EDUCATION

### NIT DURGAPUR
B.Tech in Computer Science Engineering
Aug 2007 - April 2011| Durgapur, India
CGPA: 7.40

### ST. STEPHENS SCHOOL
ISC May 2006| Kolkata, India
Perc. Marks: 76.5%

## LINKS

Github:// **kushal-r**
LinkedIn:// **roykushal**

## UNDERGRADUATE

Operating Systems
Artificial Intelligence
Computer Graphics
Software Engineering
Image Processing
(Research Project: Face Detection and Identification using Artificial Neural Network on MATLAB)

## SKILLS

### PROGRAMMING
Proficient:
Java • Object Oriented Design • UML Modeling • Data Structures • Algorithms
Intermediate:
Python • C
Familiar:
Spring Boot • JPA • Web Services(Spring REST)
Javascript • JQuery • HTML • React
Shell script
CouchBase • Influx DB • Apache Hive
MySQL • Oracle • Postgres
Rabbit MQ
Apache JMeter
XML • JSON
GSON • Jackson
GIT • SVN • Maven • Jenkins
Microsoft Visio • Lucid Charts
JUnit5 • Mokito
JMeter • JConsole • Eclipse Memory Analyzer
Tomcat • Jetty
Eclipse PDT • Android • LaTeX
Machine Learning

## EXPERIENCE

### PAYPAL | Individual Contributor
Sep 2018 – Present | Chennai, IN

- Working as part of Core Data Platform team, primarily in Java and Spring boot to design and develop the full stack implementation of a framework for managing lifecycle events on data like tracking lineage, deployment of changes, health monitoring. Reviewing requirements, creating design documents, estimating efforts and delivering a complete end-to-end solution for the company.
- Developed health monitoring application for collecting run statistics of all automated jobs running accross company. The data collected in turn is processed and used by an autonomous SLA time recalibration engine built on regression based machine learning model.
- Development of a database crawler for parsing all existing data in different data-sources like Teradata, Oracle DB, etc across company and finding the lineage information based on GIT commits, JIRA tickets, ServiceNow tickets.
- Designed and developed an end-to-end application using Java and Spring Boot for accessing UC4 Workload Automation Engine api's in use by three teams across PayPal.

### HEWLETT PACKARD ENTERPRISE R&D | Systems Software Engineer
Jun 2015 – Sep 2018 | Bangalore, IN

- Worked as part of Converged Data Centre Infrastructure team, developed from scratch HPE Synergy Image Streamer provisioning appliance.
- Designed and developed a RESTfull artefact manager using Spring boot, Shell scripting, for managing all provisioning objects like os personalization scripts, iso images of os and os volumes used during os deployment.
  Awarded Making a Difference(Quality) for detection and resolution of issues in the application before even it reaching the customers, resulting in zero customer escalations.
  Awarded Bias For Action for contributions made towards the identification and resolution of Common Vulnerabilities and Exposures (CVE ) in the open source artefact that ships along with the product.
- Development of Rabbit MQ based communication platform for inter process communication between Image Streamer and HPE Synergy Composer

### SAMSUNG RESEARCH INDIA | Senior Software Engineer
Feb 2013 – May 2015 | Bangalore, IN

- As part of Android Platform Systems R&D division worked on TouchWiz Platform.
- Spearheaded the development of a new HID service for emulating a gamepad on a smartphone.
- Developed Proof Of Concept (PoC) android application for utilizing the HID service.
- Initiated and developed a System performance benchmarking tool for monitoring CPU, DDR, GPU, Thermal and other sysfs/procfs parameters, that reduced the overall time consumption for benchmarking any device from 1.5hrs to 2mins.

### MINDTREE | Programmer Analyst
Jun 2011 – Jan 2013 | Bangalore, IN

- Was part of BFSI domain, worked primarily on the development of Revenue Accounting Software that generated sales data for various financial institution.
- Improved main code quality by fixing bugs to reduce defect count.