Kushal Roy

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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
Languages:
Java (Expert) • Python (Intermediate) • C (Prior Experience)
Object Oriented Design • UML Modeling • Data Structures • Algorithms
Tech Stacks:
Spring Boot • JPA • Web Services(Spring REST)
Javascript • JQuery • HTML • React
Shell script
CouchBase • MongoDB • InfluxDB
MySQL • Oracle • Postgres
Rabbit MQ
XML • JSON
GSON • Jackson
GIT • SVN • Maven • Jenkins
Microsoft Visio
JUnit5 • Mokito
JMeter • JConsole • Eclipse Memory Analyzer
Tomcat • Apache2
Eclipse PDT • Android

EXPERIENCE

PAYPAL | Individual Contributor
Sep 2018 – Present | Chennai, IN
- Building PayPal's first ever Data Life-cycle management application, for auditing, deployment, lineage, monitoring and metrics collection. Analyzing and reviewing requirements, writing design documents, estimating efforts, programming and delivering a complete end-to-end solution for the company.
- Implemented a rule engine for parsing SQL scripts and preventing unlawful queries getting executed, standardizing the Automation Engine scripts that can be deployed into the system.
- Engineered a custom health monitoring and metrics collecting solution of all automated workflows running across company. The metrics is processed by an autonomous SLA re-calibration engine built on regression based machine learning model.
- Developed a database crawler for parsing history query logs from Teradata and linking lineage based on GIT, JIRA, ServiceNow.
- Retrofitted PayPal's enterprise task scheduler with a REST API gateway for limiting the number of parallel connections.

HEWLETT PACKARD ENTERPRISE R&D | Systems Software Engineer
Jun 2015 – Sep 2018 | Bangalore, IN
- Developed HPE Synergy Image Streamer server provisioning appliance. Image Streamer is a small piece of software that sits on HPE Blade Server, taking care of automated os deployment.
- Designed and developed an artifact manager for managing objects like personalized scripts, ISO images and volumes used during OS deployment. Awarded Making a Difference(Quality) for detection and eradication of issues in the application before even it reaching the customers, resulting in zero customer escalations during release. Awarded Bias For Action for contributions made towards the identification and safeguarding from Common Vulnerabilities and Exposures (CVE) in the open source artifact that ships along with the product.

SAMSUNG RESEARCH INDIA | Senior Software Engineer
Feb 2013 – May 2015 | Bangalore, IN
- Single-handedly implemented a new HID service for emulating a game pad on a smartphone.
- Developed a prototype android application for utilizing the HID service.
- Initiated and engineered a System performance bench-marking utility for automated monitoring of CPU, DDR, GPU, Thermal and other sysfs/procfs parameters, that reduced the overall time consumption for bench-marking any device from 1.5hrs to 2min.

MINDTREE | Programmer Analyst
Jun 2011 – Jan 2013 | Bangalore, IN
- Worked primarily on the development of Revenue Accounting Software, that generated sales records for various financial institutions.
- Revamped parts of the existing services to introduce new features.
- Identified potential bugs in the system writing unit test cases.
- Improved main code quality by fixing bugs to reduce defect count.