Kushal Roy

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EDUCATION

NIT DURGAPUR
B.Tech in Computer Science Engineering
Aug 2007 - April 2011| Durgapur, India
Cum. GPA: 7.40 / 10.0

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

LINKS

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

COURSEWORK

UNDERGRADUATE
Information Retrieval
Operating Systems
Software Engineering
Artificial Intelligence
Computer Graphics
Unix Tools and Scripting
(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 • Hibernate • 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 | Software Development Engineer - II
Sep 2018 – Present | Chennai, IN
- Developed 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.
- Engineered a custom health monitoring and metrics collecting solution of all automated workflows running across company.
- Designed a Metrics Analyzer for autonomous SLA re-calibration using 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.

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.

RECOGNITIONS

HPE Making a Difference - Detection and eradication of issues in the application before even it reaching the customers, resulting in zero customer escalations during release.

HPE Bias For Action - Contributions made towards the identification and resolution of Common Vulnerabilities and Exposures (CVE) in the open source artifact that ships along with the product.