

DEBDIPTO GHOSHAL

• PR holder •

M +1 604 518 9461 • debdipto@gmail.com

Website www.debdipto.com • Projects <http://www.systems.debdipto.com/#projects>

Senior Software Test Engineer

AREAS OF EXPERTISE

- REST API Testing • Data Storage and Retrieval • QA Best Practices •
- Front End and Back End Automation • Whitebox And Blackbox Testing • Expert in Python •
- Performance, Scalability and Reliability Testing •

PROFESSIONAL SUMMARY:

- 10+ years of experience testing cloud based software, front end and back end testing using various databases and programming languages.
- Competent programmer in C#, Java and Python with 9+ years of automation testing experience.

SKILLS:

Software: Visual Studio, Kubernetes, Docker, .Net 3.5 and above, IntelliJ, MySQL, MS-SQL Server, Apache, Git, Maven, Gradle, Android Studio, Jenkins, GoCD, Ansible.
Testing Software: Pytest, JUnit, TestNG, ATU, Selenium Webdriver, Cucumber BDD
Languages: Python, Java, C#
Architectures familiar: OOP, SOA, MVC, REST API, Amazon Web Services (AWS)
Hands on technologies: HTTP, HTTPS, Winforms, TCP Sockets, JSON, multi-threading

PROFESSIONAL EXPERIENCE

Alida Inc. Vancouver, Canada February 2022 – April 2023
Senior Software Test Engineer

- Complete ownership of testing and validating features of Touchpoint and Dashboard and Analytics.
- Responsible for load and volume testing the Datalake storage, feature testing, integration testing, End-to-End and REST API testing **using PyTest** Hosted on **AWS**.
- Mentored a team of 3, with regular daily sync ups. Allocated tasks based on priority. All legacy implementations of tasks were converted to automation by Sprint end.
- Carried out code reviews and individual performance evaluations for QA resources working under me. Ensured that proper QA methodologies were being followed and carried out RCAs for missed cases. Created Epic level strategies and ensured that test metrics were monitored.
- Organised End-to-End tests between all QAs and a per epic Blitz test with the developers and QAs. Subsequently, logged all issues seen and prioritised tickets based on bugs found.
- Helped groom QA only tickets each sprint and ensured proper closure before sprint end.
- Built the AlidaTestFramework that would run automated **frontend** smoke tests, advanced tests, performance tests and **backend** workflow tests, supervised a team of 3, **built in PyTest using Selenium and Requests**. Whole framework was built in **Python**. Containerized the framework using **Docker**. Code quality was maintained via **PyLint**. Frontend testing was carried out using **Selenium** over multiple browsers, backend was tested using the Python Requests class
- Responsible for detailed test case development on Confluence, test case coverage, corner case creation, code reviews and hands-on testing on multiple environments.
- Worked in an **Agile** model with daily standup meetings, bi-weekly Grooming and Retro meetings

- Set up nightly runs on **GoCD** and **reported** results to Slack.
- Carried out production pushes on a monthly basis using **GoCD** and **Github Actions** in accordance with SOC2 compliance.

Cohesity Inc. Remote, November 2021 - February 2022
Senior Member of the Technical Staff

- Implemented **KubeMonkey** for Chaos testing the DMaaS services over **Kubernetes**.
- Wrote test cases and test plans for chaos testing all services and in reporting intermittent hard to reproduce errors.
- Used **Ansible** to build the test environments hosted on AWS.

Global Relay Communications Vancouver, Canada November 2020 – November 2021
Senior Software Development Engineer in Test SDET

- Complete ownership of testing and validating features of the Conversation Converter product which renders extracted conversations into .eml files based on business logic rules
- Responsible for load testing, feature testing, integration testing, End-to-End and REST API testing using **JUnit** and then **TestNG**. Ran all tests over **Jenkins** hosted on Redhat Openshift.
- Built a series of helper libraries for the performance tests in Java using **Cucumber BDD**.
- Responsible for detailed test case development on **TestRail**, test case coverage, corner case creation and hands-on testing on multiple environments.
- Worked in an **Agile** model with daily scrum meetings

Commvault India Pvt. Ltd, Hyderabad, India September 2017 – November 2020
Senior Software Engineer – 3, Software Development Engineer in Test SDET

- Complete ownership of testing and validating features of Commvault's hyperscale product which stores data on multiple data nodes for redundancy using the Gluster File System.
- Mentored several QAs working under me within the hyperscale team for manual as well as automation testing and ensured that proper QA methodologies (as per **STLC**) were being followed and carried out RCAs for missed cases. All legacy implementations of manual tasks were automated by Epic end.
- Carried out load, feature, integrity, REST API and QCommand (Commvault's own server API) testing using **postman**.
- Automated various features of hyperscale across 8 service packs using Python. Feature owner of vertical and horizontal scale out, disk replacement, RHEL OS (Linux) upgrade using in-house scripts, Node refresh, imaging and reimaging and Hyper-V Automation using **Python**.
- Built a series of helper libraries for the cvpySDK (Commvault's Automation framework) for usage across the Media Management team for Automation testing and for scheduled backup scripts in **Python on Linux**
- Maintained a Hyper-V for hosting multiple test environments. Responsible for environment creation, deletion, configuration and access control
- Responsible for detailed test case development, test case coverage, corner case creation and hands-on testing on multiple environments prior to automating all of them.
- Successfully handled several major customer side issues over WebEx.

Artifact Design LLP, Bangalore, India November 2016 – August 2017
Product Development - Lead

- The Bplugd bag was manufactured by Artifact Design. I was responsible for back end API development, Server development, mobile App development and worked closely with the hardware team to integrate all 3 components.
- Carried out quality analysis, performance, scalability and reliability tests to ensure fault tolerance.
- Formed processes with the CEO, HR and Design Managers to collaboratively form a series of processes for development and inter departmental collaboration.

BPLUGD IoT Pvt Ltd (in collaboration with Artifact Design LLP), Bangalore, India March 2016-October 2016
Chief Technology Officer

- Coordinated and supervised the hardware team to build the hardware module that connected to the Server. The final hardware module could asynchronously send the bag status or when requested and could respond to orders given via the Bluetooth channel or via the server. *Built the entire code in Arduino C.* Server code was in C#. Server was hosted on AWS.

NUMERIFY INCORPORATED, Bangalore, India & Cupertino, USA · 2013-2016

Senior Software Test Engineer

- Built the entire QA test automation framework from scratch along with all version controlled helper libraries. Built entirely in **Java 1.7**, **hibernate** and **Selenium Webdriver**. Hosted on AWS.
 - Build back end automation for running test suites with the platform team using TestNG. Developed test cases for new features and bug fixes. Deployed on **Jenkins** for nightly runs on new builds, generating **ATU reports**.
 - Built test plans and test cases for several features, used the **Atlassian Jira** to communicate test case failures to other teams.
-

PARK GUPTA GOMEZ LLC, Kolkata, India & New Haven, USA · 2013-2013

Software Developer, Movie Tickets Ticket Pricing & User Behaviour Analysis Project

- Built an ETL engine that would accept CSV files containing sales data from a push based source using **C# Winforms**.
- Created and maintained back end data warehouse in MySQL and MS Access. Hosted on AWS.

BLACKBOX, Nottingham, UK & Kolkata, India · 2012-2013

Software Developer, Blackbox Automatic Backup System Project

- Built flash drive software from scratch for data backup and restoration using **C# Winforms** over .Net 4.0. Synchronised folder content, with automated monitoring for changes upon plug-in with 1-second delay.
- Allowed simultaneous access and resiliency of data (on flash drive removal), restartability of pre-existing backup jobs.

EDUCATION

Master of Science with Honours in Advanced Computing Science (2011 - 2012)

University of Nottingham, Nottingham, UK

Received High Achievers' Postgraduate Taught International Scholarship.

Master of Science in Computer Science (2009 - 2011)

St. Xavier's College, Kolkata, India

Bachelor of Science in Computer Science (2006 - 2009)

Scottish Church College, Kolkata, India