

Dipjyoti Metia

GitHub Certified GitHub Actions.

Certified Google Cloud Professional Cloud Developer.

Certified AWS Solution Architect Associate.

Certified Microsoft Azure Fundamentals.

SDET | Test Automation Engineer | Test Framework Developer

! IMPORTANT

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Experience Summary

Chapter Lead Testing

Company Name: ANZ

Dates Employed: August 2022 - Present

Location: Melbourne, Australia

- Overseeing testing for ANZPlus app's core banking services (Payments, Accounts, Transactions, Cards, Statements) developed using Golang in a cloud-native environment.
- Establishing quality principles and a shift-left mindset across feature teams, aiming for 100% automated testing.
- Integrated the **OpenTelemetry** library into our **Golang** based **gRPC** API testing framework, enhancing test failure tracking and resolution.
- Created performance tests with **OpenTelemetry**.
- Developed an intelligent notification system using **SlackBot** for tagging responsible personnel for specific test failures.
- Migrated a JavaScript service virtualization project to TypeScript, deployed on CloudRun, and restructured it to simulate Kafka and cloud events mechanisms.
- Created a Golang-based command-line tool for dynamic test data creation and retrieval from various microservices.

Lead Software Engineer in Test

Company Name: ANZ

Dates Employed: May 2020 - August 2022

Location: Melbourne, Australia

- Developed an integration test framework using **Golang** for **gRPC** and REST services.
- Led testing initiatives for core banking services, focusing on a cloud-native development environment.
- Collaborated extensively with Google Cloud services, utilizing Kubernetes, Cloud Pub/Sub, Cloud Functions, Dataflow pipelines, and Cloud Run.
- Created multiple parallel jobs for hourly shakeout tests with notifications via Slack APIs and GitHub Actions.
- Emphasized a shift-left approach for integrated testing (System Test, Security Test, Performance Test) within a unified delivery pipeline.
- Evaluated performance testing frameworks using **K6** and **ghz**.
- Enhanced an End To End performance testing framework with **Locust**, integrating with Kubernetes and visualizing metrics in Grafana.
- Developed a service virtualization framework using ExpressJs and serverless framework for system and performance testing.
- Engineered a Golang and Cobra-based command-line application for generating authentication tokens and acquiring test data details.
- Collaborated with the SRE team to create monitoring dashboards in Google Cloud Monitoring and Splunk, setting up alerting with predefined SLIs.

Software Development Engineer in Test

Company Name: BetEasy Pty Ltd (SportsBet)

Dates Employed: April 2018 – May 2020

Location: Melbourne, Australia

- Created a Mobile Automation Framework using **Appium** for native mobile apps (iOS and Android) with Jenkins integration.
- Set up **SeeTest Cloud** on-premise from scratch for mobile app testing.
- Integrated Slack with Jenkins for on-demand mobile app and API testing.
- Developed a framework integrating **RestAssured** for mobile API automation.
- Worked on a C# and RestSharp-based API testing framework integrated with AWS S3 and DynamoDb.
- Developed WebUI framework using **Puppeteer** and Jest.

- Created a mock server using **Json-server** for frontend unit testing.
- Developed AWS API Gateway integrations with Lambda functions using Node.js.
- Converted test frameworks to run in Docker containers with custom images pushed into AWS ECR.
- Created serverless testing solutions using **localstack**.
- Implemented static code analysis with **Sonarqube**.
- Developed Slack-Bot in AWS Lambda with Jenkins for triggering mobile test jobs from Slack.
- Created End to End API testing frameworks using Typescript, Supertest, Axios, Knex.js, and LokiJS.
- Developed a full-fledged WebUI testing framework using **Cypress**.
- Created visual regression testing framework to run in Docker containers and publish results to S3.
- Set up CI environment infrastructure for end-to-end testing using CloudFormation templates.
- Continuous monitoring of tests execution using Elasticsearch and visualizing data in Kibana.
- Created **RunScope** dashboard for 24/7 API monitoring in production.

Senior Test Analyst

Company Name: National Australia Bank

Dates Employed: Oct 2016 - April 2018

Location: Melbourne, Australia

- Led a team testing cloud migration of 35 legacy applications to Azure cloud.
- Developed automation frameworks for Angular applications using Protractor and banking applications using Selenium.
- Created test automation frameworks for API Testing using Java (Apache Http Components & RestAssured).
- Implemented stubbing using Node.js framework Stubby.
- Prepared, reviewed, and executed test cases using Jira Zephyr.
- Created Selenium Cucumber-based BDD framework, integrated with Jira and Jenkins.
- Developed database automation test frameworks for Salesforce databases.

Test Engineer

Company Name: Infosys Ltd

Dates Employed: Feb 2015 - Oct 2016

Location: Mysore, India

- Worked on a behavior-driven Cucumber Selenium framework for web UI automation.
- Performed SQL database automation and validation using Java JDBC.
- Automated UI of **SAS** fraud detection application using Selenium.
- Conducted API testing using SoapUI.

Open Source Contribution

- [HybridTestFramework](#)
- [MobileTestFramework](#)
- [Jarvis](#)
- [PlaywrightTestFramework](#)
- [EventShark](#)

Meetups Presented

- [Web based engineering using Puppeteer, Feb 2019](#)
- [Protractor with BDD & more, Sep 2017](#)

Research Journal Publications

- [A Hybrid SVM-NN Based Multilevel Classifier For Detecting Network Intrusions, Mar 2015](#)
- [An Efficient Hybrid Multilevel Intrusion Detection System in Cloud Environment, Aug 2014](#)

Education

Master's Degree, Engineering: West Bengal University of Technology, India

Bachelor's Degree, Engineering: West Bengal University of Technology, India

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