KAMALNATH MURUGAN

Chennai, Tamil Nadu, India | +917200968104 | kamalnath.qatesting@gmail.com
https://www.linkedin.com/in/kamalnathmurugan/

SUMMARY

Software Developer with 3+ years of experience in Python development, unit testing, and backend application workflows.Experienced in data validation, API integrations, and building scalable software solutions across payment domain and insurance like health,motor domains.Proficient in automation and testing frameworks including Selenium, Playwright, Requests, PyTest, TestNG, Cucumber, Karate, and JUnit, with hands-on exposure to Java-based testing and modern automation methodologies.

Technical Skills

Programming Languages	: Python, Java
Automation & Testing Tools	: Selenium, Playwright, PyTest, TestNG, Cucumber, Karate, JUnit
Development Framework	: Django
Testing Expertise	: UI Testing, API Testing, Database Testing
Tools & Technologies	: Eclipse, VS Code, Postman, Maven, JIRA, GitHub
Databases	: MySQL, MongoDB

EXPERIENCE

Software Developer/Automation Engineer - Contract

Staunch Technologies Pvt Ltd   **January 15, 2025 – Present, India**

- Develop and implement Python Django-based unit tests across data pipelines and engineered features to ensure data accuracy, algorithm reliability, and system stability.
- Design and implement input/output validation frameworks for algorithm-driven services, including verification of machine learning model predictions, data transformations, and business rule processing.
- Build and maintain data snapshot and archiving mechanisms to preserve historical algorithm inputs and outputs, supporting data analytics, audit compliance, and reproducibility of service reports.

Software Tester-Contract

Micole   **July 2024 - January 2025, Spain**

- Executed manual and automation testing for European education platform connecting schools and parents for online admissions and subscription management.
- Performed API and UI testing using Postman and Figma designs on Ubuntu environment, identifying and documenting 60+ defects related to school listing and search functionality.

Software Engineer

Paytabs - Ogs Paylabs Private Limited   **November 2022 - November 2023, Chennai, India**

- Supported payment gateway integrations by implementing Python and Django-based validation modules and structured test scenarios to verify API data inputs, outputs, and transaction processing across 50+ endpoints for mobile, web, and POS platforms.
- Designed and maintained validation frameworks and documentation to support unit testing across data processing workflows, improving payment transaction accuracy and system reliability with 95% test coverage.
- Performed functional, regression, and integration validation by analyzing transaction data flow, API responses, and backend processing logic within Python/Django-based service architecture, identifying and resolving 80+ critical defects while supporting release and reporting requirements.

Software Engineer

Paytm - Codevik Technologies Private Limited   **March 2022 - September 2022, Chennai, India**

- Supported backend integration of insurance service modules by validating data processing logic, API integrations, and workflow implementations across multiple insurance providers.
- Designed and executed Python-based validation scripts and test scenarios to verify data integrity, business rule processing, and system performance, improving reliability and supporting analytics and compliance reporting.

Software Assosiate - Contract

Barclay's Private Limited - Kelly Services   **May 2018 - September 2020, Chennai, India**

- Provided payment protection insurance advisory services with prequal applications for Barclays banking customers, handling 40+ customer inquiries daily and hot fixes with 98% satisfaction rate.
- Processed insurance claims and policy modifications while ensuring compliance with banking sector regulations and company policies.
- Supported insurance application and prequalification workflows by troubleshooting system issues and performing Python-based data validation and automation support to improve process efficiency across banking service platforms.

Customer Service Associate
Exl Service   **May 2017 - May 2018, Chennai, India**

- Managed insurance refund processing for customer applications, handling 30+ refund requests daily with 99% accuracy rate.
- Resolved customer queries and complaints related to refund status, maintaining detailed records in tracking systems for audit purposes.

PROJECT

Staunch Technologies Pvt Ltd

Defect reporting system - Ship management   **January 2025- Present**

- Developed a Defect Reporting and Tracking System to manage, monitor, and resolve ship maintenance defects, improving operational visibility and defect resolution efficiency.
- Designed and implemented backend modules using Python to capture defect logs, maintenance data, and status tracking workflows.
- Built data validation and reporting mechanisms to ensure accuracy of defect records, maintenance schedules, and operational analytics.
- Created automated workflows for defect lifecycle tracking, including reporting, assignment, status updates, and closure validation.

Micole- School Management System   **August 2024 - January 2025**

- Handling API Testing and UI Testing using figma design and used PHP technology and used ubuntu os and found out many issues related to schools displayed in home page.
- School admissions and School details of europe where micole is the platform to connect the school with the parents digitally online for admissions for various classes and courses through video conference.

Projects including Bijlipay, ATMC, Card Management System, and
Paytabs Shopify integration.   **Paytabs • November 2022 - November 2023**

- Spearheaded integration efforts across projects such as Bijlipay, ATMC, Card Management System, and Paytabs Shopify, enabling seamless interoperability and enhancing overall platform functionality.
- Automation tests across whole applications with 95% accuracy to fulfill client needs.
- Bijlipay products which includes pos terminal machine key loaded for transaction.
- ATMC which will control the atm machines upto date records and transaction records, Machine health and status of the ATM.
- Paytabs integrated with shopify to provide the website card for the users to create and display the products.

Paytm Insurance- Motor Insurance, Health care Insurance   **Paytm • March 2022 - September 2022**

- Executed end-to-end UAT integration testing between Paytm and 5+ third-party insurance partners, reducing post-release issues by 35% and ensuring smooth policy onboarding.
- Bike Insurance and Car Insurance has been integrated with the paytm platform with the third party insurance companies.

Barclay Card Payment Protection Insurance-Barclay Credit Card   **Barclays • May 2018 - September 2020**

- Maintained comprehensive documentation of all claim inquiries and resolution processes within internal systems to support audit and regulatory standards.
- Refined the refund process for Barclay Card Payment Protection Insurance by automating application workflows, enhancing accuracy and accelerating claim resolutions.
- Provided Health care medical insurance products to Implementation of Electronic Health Records (EHR) and blockchain for secure, interoperable data sharing.

Hartford Insurance   **Exl Service • May 2017 - May 2018**

- Handling Insurance Cancellation Process and remove the duplicate complaint logging.

EDUCATION

Bachelor's Degree in Mechanical Engineering
New Prince Shri Bhavani College of Engineering and Technology • Chennai • 2016 • 7.23
12th
Shri Natesan Vidyasala Matriculation Higher Secondary School • Chennai • 2012 • 74%
10th
Shri Natesan Vidyasala Matriculation Higher Secondary School • Chennai • 2010 • 81%