

Harshal Abak

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WORK EXPERIENCE

Barclays (BGSC), Graduate Developer, BA4 ✉

Jul 2024 – Present

- Contributed to the next-generation Billing Self Serve (BSS) Project, replacing the legacy MiRevenue platform for Corporate Clients to improve scalability and performance.
- Streamlined cross-platform web testing using BrowserStack API, enabling seamless UI validation across Windows, macOS, and all major browsers (4+ browsers), improving test coverage and reducing platform-specific issues.
- Designed Automated framework for BSS containing 250+ UI test cases using Selenium, Java, JUnit, Maven, and Cucumber, reducing manual QA effort by 80%.
- Engineered an end-to-end API testing suite with 500+ test scenarios for BSPB and CloudIT services using Cucumber and Insomnia, accelerating validation cycles.
- Developed Java logic to route network traffic via Barclays' internal proxy and validate SSL certificates, ensuring secure and compliant API access.
- Built GPP Validation Framework process using JAVA 17, cutting process time from 40 days to 8 days via automation.
- Integrated and scheduled Automated test scripts into CI/CD pipelines using Jenkins, enabling daily test execution and Automated Email Reporting of test case results for faster and more reliable deployments.
- Executed accessibility testing to ensure compliance with WCAG standards for inclusive digital access.

Transvision Solutions, ML and Backend Intern ✉

Oct 2023 – Mar 2024

- Engineered machine learning algorithms for KYC verification, fraud detection, and negative news monitoring, achieving 95% accuracy in identifying fraudulent profiles.
- Engineered a high-performance system employing LRU caching algorithm and parallel processing techniques, accelerating data retrieval speeds by 60% and reducing latency in critical financial compliance workflows.
- Developed real-time web scraping pipelines and applied TF-IDF and NLP-based sentiment analysis for risk assessment.
- Designed a risk scoring system and automated narrative generation for SAR reports, improving alert accuracy and reporting efficiency by 20%.
- Deployed solutions using Docker on Amazon EC2, ensuring robust and scalable production deployment.

PROJECTS

AI-Powered Change Impact Analyzer (RiskIQ.AI), Barclays Reimagined Hackathon ✉

- Built an AI-driven tool to automate change impact analysis using Azure OpenAI, Groq AI, LangChain, and Pinecone.
- Implemented risk scoring, effort estimation, and AI-based justifications for smarter decision-making.
- Developed backend with Flask and real-time alerts via Power Automate; designed an intuitive web UI for stakeholder insights.
- Enabled semantic search on structured data (e.g., reports, stakeholders, requirements) using RAG architecture for contextual responses.

SKILLS

Languages: Java, Cucumber, C/C++, Python, SQL, Git

TechStack: Jenkins, Lombok, Apache POI, Jsoup, JUnit, Maven, Selenium, Browserstack, GitLab, GitHub, Generative AI, MS-SQL, Machine Learning, Docker, AWS S3, AWS Lambda, EC2

EDUCATION

Vishwakarma Institute Of Technology, B.Tech - Computer Engineering

Jun 2020 – Jun 2024

8.92 CGPA

Achievement

Flipkart Grid 5.0 Hackathon, Semi-Finalist ✉

Only team from college to reach semi-finals (top 50) among 1000+ teams to register in the event.

Barclays GenAI Hackathon 2.0 ✉

Secured 3rd place out of 77 teams across 5 panels in Barclays' internal Global GenAI Hackathon 2.0, competing against teams across 11 global locations.

Open Source Contribution, Git and GitHub ✉

50+ PR accepted in various domains (Java, GenAI, Python).