

Bakiyalakshmi Palani

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[🌐 GitHub](#) | [🌐 LinkedIn](#) | [🌐 Portfolio website: https://bakiyaa.github.io/Portfolio](#)

Skills

Java (Primary), Python3(Secondary), Data Structures, Angular14, HTML5, CSS Grid, JavaScript, Oracle, MongoDB, Spring MVC, Spring Boot, Spring-Security, Hibernate, JPA, Apache Camel, SOAP, JWT, Microservices, REST, Docker, Git, Jenkins, Terraform, Kubernetes, Unix/Linux (Scripts), MQ, Kafka, Distributed Systems, Drool Engine, Google Cloud Platform (GCP), Amazon Web Service (AWS), Junit-Mockito, Grafana, English (Fluent).

Professional Summary

Full-Stack Developer with 6.5+ years of experience in microservices, enterprise integrations, and cloud computing, passionate about innovation and emerging technologies. Seeking opportunities in an environment that fosters continuous learning and growth.

Experience

Software Engineer

Capgemini

Chennai, TN, INDIA

08/2022 - Current

Client: Barclays Wholesale Lending Systems

- Architected a microservice-based, event-driven loan system for **Barclays Wholesale Lending** using **SpringBoot, Java, and Apache Kafka** Hash key based partitioning strategies that enabled processing over 100,000 events per second.
- Implemented a custom multi-threaded **KafkaConsumer**, which reduced deal processing time by 40%. Added multilayer validation using **Spring's @validated**, custom annotations, Spring Security with custom JWT, and included business logic validations at the service level.
- Optimized database **Oracle SQL** queries, managed documents in **MongoDB with indexing** and utilized internal caching for funding, improving write consistency while decreasing database load time by 50%.
- Formulated thread-safe parallel processing service for **Barclays trading** service with **Java Concurrent collections** and the fine-grained locking, resulting in 2.5x faster transaction handling and a **99.9% data integrity rate**.
- Engineered **RESTful APIs for loan and trade processing** using Spring Boot/MVC with bearer token authentication, **global exception handling**, JPA validation, and asynchronous processing, handling 1000+ requests per second.
- Designed and deployed a message routing system for pool funding requests using **Spring, Apache Camel, and MQ integration** with downstream systems, dynamic routing, exception handling, data persistence, and batch processing with Autosys and shell scripts.
- Integrated **CI/CD** pipelines, conducted **code reviews**, managed pull requests, and performed unit/integration/E2E testing using **Spring, Mockito, Git, Jira, Bitbucket, TeamCity, SonarQube, and Veracode**, ensuring secure, high-quality code with a consistent velocity over **20 story points per sprint**.

Client: Barclays TCW

- Developed and **presented findings and solutions** to senior executives and stakeholders, optimizing processing efficiency and eliminating overhead bottlenecks.
- Worked on analysis of the prod issues and provided the solutions in **Spring Java** code formulations/data structures, updated **drool rule processing**, tested in lower environments, and successfully deployed real-time.
- Optimized **Agile project workflows** through expert **JIRA configuration**, including creation of custom **dashboards**, and queries. Able to enhance cross-team visibility and streamline information sharing.
- Based on the stories/ business requirements from Jira, code, and configurations for **MarkitWire, Trade Treasury, and Clearing Systems** done, improving real-time transaction processing and system stability.
- Deployed code changes using Nolio, **Nexus and TeamCity**, streamlining **CI/CD pipelines** and automating release in various environments from dev to prod cycles for increased efficiency.
- **Mentored** junior developers by conducting code reviews, sharing best practices, and providing hands-on guidance in Java, Spring Boot, Hibernate, and Microservices.

Client: Capgemini

- Collaborated with stakeholders to gather requirements, interpret data, and estimate costs, ensuring optimized cloud expenditure.
- Designed and implemented an **SSI (Standard Settlement Instructions)** automation solution using IAM, **AWS Lambda**, **AWS S3**, **SNS**, **SQS**, **Amazon Textract** and **AWS Bedrock (Llama model)**.
- Implemented **Amazon SDS** for automated **build, deployment, and rollback** processes, ensuring high availability and minimal downtime.
- Pre-processed financial data by handling null values, applying weighted percentages, and performing post-validation with **RDS SQL queries** to ensure accuracy and data integrity.
- Automated improved the accuracy of 90% and sped up the financial transaction settlements, enhancing operational efficiency and ensuring seamless integration of **AI-driven processes** within cloud-based infrastructures.
- Presented findings to stakeholders, creating **technical documentation, reports, and visual presentations** for informed decision-making.
- Built a **Generative AI solution** using GCP's **RAG (Retrieval-Augmented Generation) Framework** in **Challenge Lab L400**, leveraging **Vertex AI**, **BigQuery**, **Cloud Storage**, and **LangChain** to enhance response accuracy and contextual understanding in AI-driven applications.

Systems Engineer

TCS

Chennai, TN, INDIA 06/2018 - 08/2022

Client: British Telecom UK

- Worked on KCIM (Keep Customer Informed Manager) Spring Boot service for generating messages, SMS, and mails to the client using Java, XML processing, JMS, JSP, HTML, CSS, JS, and SMTP integration.
- Integrated Spring to **Prometheus and Grafana**, and PL/SQL queries update and retrieve data from **Oracle**.
- Agile Project with Scrum calls, iterative development, and tracking defects and scenarios in JIRA.
- Pushed and committed code to GitHub, deployed via Nexus, conducted unit testing with JUnit-Mockito, and validated builds using Jenkins and SonarQube.

Client: Hutch UK and Infor Manila

- Written **Unix/Linux shell scripts and regular expressions** process data files like .bat, .cdr, SMS, CSV files.
- Implemented **cron jobs** for scheduling automated tasks, ensuring seamless execution of data processing pipelines
- Automated telecom workflows for **Hutch UK** using Python-Selenium with **Grafana** integration and Selenium-Java automation for **Infor Manila** using TestNG, Maven POJO, and Apache POI.
- Trained in Java, **Spring MVC**, **REST API**, **Microservices**, **Hibernate**, Selenium, JMeter, and MSSQL.

Certifications

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| • Capgemini Certified Aspiring Architect | (06/2024) |
| • GCP Build and Deploy a Generative AI Solution Using a RAG Framework L400. | (09/2023) |
| • AWS Certified Developer Associate Certificate No: 8TE60151XB1QQVG4. | (11/ 2023) |

Education

Bachelor of Technology

Chennai

08/2014 - 05/2018

Prince Shri Venkateshwara Padmavathy Engineering College -Anna University Affiliated, Ponmar Chennai
Field of Study: Information Technology | Overall Result (GPA): 8.45 | Rank – 44th in University.