Deepak Pathak

Accomplished Principal Software Engineer with 18yrs+ of hands-on experience in the full life cycle of software development,from design through deployment. Proven expertise in Project management and industries like Supply Chain Management, Gift Card Processing, Payments, Retail and Digital Distribution.

Pleasanton, CA
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WORK EXPERIENCE

WiseTech Global/Blume Global, USA — *Lead/Principal Software Engineer*
2022 - Present

- Designed and developed **microservices** using **Spring Boot**, ensuring scalability, fault tolerance, and high availability for the core business objects for the logistics platform.
- Developed and implemented a **multi-tenant validation framework** using **Spring SpEL** (Spring Expression Language) for logistics APIs, enhancing flexibility and maintainability across different tenants.
- Mentored cross-functional teams in adopting and integrating the framework into their respective systems, ensuring successful implementation and consistent usage across the organization.
- Enhanced API response times by implementing **global caching**. Migrated from local to global cache, improving system performance by more than 40%
- Implemented robust security measures and streamlined user authentication for both internal and external APIs using **Spring Security** and **API Keys**.
- Lead code reviews and provide constructive feedback. Promote high standards for code quality, testing, and security.
- Provide technical leadership and mentorship to engineering teams, ensuring best practices in **design**, **development**, and **deployment**.
- Technology enthusiast, experimental **Gen-AI** application developer.

FIS, USA — *Lead Software Engineer/ Software Engineer Specialist*
2016 - 2022

- Designed and documented key system components,**microservices**, network architecture, and data flow diagrams, ensuring alignment with business needs and technical requirements.
- Led technology upgrades by recommending and implementing the adoption of appropriate tools and frameworks to enhance development efficiency and product quality.
- Wrote clean, modular, and secure **Java** code using industry-standard frameworks (e.g., **Spring, Hibernate**) while ensuring high test coverage and maintainability.
- Spearheaded the redesign and migration of legacy modules to modern technologies(e,g.,**AWS**) and frameworks, improving system performance, scalability, and maintainability.
- Coordinated with business users and the support team to address and resolve production issues swiftly, providing permanent solutions to minimize system downtime.

FIS/Petrolink/Wipro Energy/HCL India — *Project Lead/SSE/SE/Trainee*
2005 -2016

- **Software Development**: Developed key application modules, conducted code reviews, wrote comprehensive test cases, and documented various applications, ensuring clear and maintainable code.
- **Project Management**: Oversaw the full project lifecycle, including planning, execution, and closure. Managed offshore deliverables, ensuring high-quality outcomes and adherence to timelines.
- Led and mentored a cross-functional team of developers and QA engineers, ensuring alignment with business requirements and guiding the translation of these requirements into effective technical solutions.
- Actively participated in the software development lifecycle (SDLC), including requirement gathering, designing, coding, testing, and releasing applications to production.

SKILLS

Languages/Frameworks - Java, Python, Spring Boot, Spring Data, Spring Batch, Hibernate, Mockito, JUnit.

Database/Store — SQL, MySQL, Redis,Elasticsearch, Stored Procedures, Views, and Triggers, Functions.

Platforms - GCP, AWS, Docker, Kubernetes,GitHub Action.

AI/ML/Gen AI - Supervised Models, NLP, LLM,LangChain

Others — Git,Maven,Gradel, Jenkins, Lucid Charts, Draw.io

EDUCATION

Master's In Computer Application
2002-2005, HNB Garhwal Central University, Sri Nagar, UK, India

Bachelor's In Computer Application
1998-2001, CCS University Meerut, UP, India

CERTIFICATIONS

Certificate Program in Data Science 2021
University of Berkeley Extension, CA, USA

Project Management Professional (PMP) 2016
Project Management Institute, US

CONNECT

LinkedIn: deepak_pathak
GitHub: dpathak-ai

PROJECTS

Blume Logistics API & Native Integration - *Blume Global/Wisetech Global*
Pleasanton, CA
- Utilized **Konga API Gateway** to securely expose internal APIs to external consumers, enhancing system accessibility and integration capabilities.
- Migrated from local to **Global cache**, improving system performance and data consistency. Enhanced API response times by implementing **caching for database queries**.
- Implemented **Spring Spell** validation framework for robust input validation and testing. Integrated with **JUnit** for unit testing and leveraged **GitHub Actions** to automate build and deployment pipelines.
- Led the **E-Request integration** between **Blume** and **WTG**, streamlining support processes and replacing the legacy **Salesforce CRM** with a more efficient solution.
- Implemented **Single Sign-On (SSO)** using **OAuth standards** for seamless authentication between **WTG** and **Blume** applications, improving security and user experience.

Database & Infrastructure Migration – *Blackhawk Networks Holdings*
Pleasanton, CA
- Developed and executed a strategy for the seamless migration of the catalog and order processing system from **DB2** to **MySQL** and from on-premises datacenter to **AWS cloud**, ensuring minimal downtime and data integrity
- Explored and evaluated various migration strategies, including lift & shift, **Amazon Data Migration Service (DMS)**, and **Attunity**, to determine the most efficient approach for the migration of applications and data.
- Worked closely with the DevOps/Cloud Operations teams to design and implement AWS cloud infrastructure and establish an efficient **CI/CD** pipeline for streamlined development and deployment processes.
- Identified and resolved migration challenges related to infrastructure, network configurations, **SQL** objects, **SQL** queries, and integration with other systems, ensuring smooth transition and continuous system performance.
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Lawson Japan Services – *Blackhawk Networks Holdings*
Pleasanton, CA
- Lawson Japan is a leading Supply Chain Partner in Japan. In order to maintain the supply chain, two microservices and Frontend are developed for Blackhawk Japan.
- Microservices are developed on Spring Boot framework, and Spring Async for file processing system, and interacts with frontend applications developed in Vue.js with multilingual support.
- Key Framework and Technology used are - **Spring Boot 2.0, Apache iBATIS, Spring Async, Redis Cache, AWS Cloud Services**.

Campaign Management Services – *Blackhawk Networks Holdings*
Pleasanton, CA
- As a part of Blackhawk Microservices API Ecosystem, Campaign Management is a microservice that manages the ongoing campaigns and future campaigns for catalogs.
- Microservice integrates with some other microservices like Partner Service, Client Service, Catalog Service.
- Purely developed on Spring Boot Framework and AWS Cloud Infrastructure.
- API is consumed by other microservices as well as Frontend Application developed in Angular.
- Key Framework and Technology used are – **Spring Boot, Map Structs, Liquibase, JPA.**

Catalog and Order Processing System – *Blackhawk Networks Holdings*
Pleasanton, CA
- Catalog and Order Processing system for Digital and Brick & Mortar stores and products. This system primarily consumes master data, sales data, setup partners for assignments, approvals, generate planograms and generates products catalogs and orders based on business requirement.
- This system consists of Web Application, REST APIs, Scheduled and non- scheduled batch jobs.
- Enhanced various modules of application, bug fixes, wrote code, SQL queries, reviews, perform testing, build, deployment activities.
- Upgraded source code repository, build process, and deployment and project source code to advanced technologies.

Business Services – *Bento for Business Services, San Francisco, CA*
(Offshore)
- Bento Payment Platform used to issue and manage an Expense Management Card to the employees of small and medium sized businesses (SMB).
- Used by small and medium sized businesses to issue expense card to their employees, to transact on affiliates location, reporting on expenses by employees on various search parameters, web application & mobile application to perform configuration, view reports, card issuance, employee setup, card activation and deactivation, merchant enrollments and use offers.
- Involved in business and functional requirement analysis and technical design with client and development team of backend API.
- Lead the development teams and assess and manage functional and non-functional requirements and ensure that they are addressed with the most optimal technical solutions.
- Framework and Tools: **Spring, Hibernate, JEE, Java, JavaScript, jQuery, Web service (REST) MySQL and Tomcat 7, Git, Bootstrap**.