

PUSHKAR MAHAJAN

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SKILLS

Languages:	Java, Python, Javascript, Typescript, HTML/CSS, SQL
Frameworks :	SpringBoot, ReactJS, Angular, Flask, Django, Hibernate, JUnit, JPA, Mockito, Spark
Technologies:	Redis, Webhooks, Liquibase, CircleCI, Jenkins, Kafka, RabbitMQ, Docker, Kubernetes
Cloud Platforms:	AWS (S3, DynamoDB, EC2, ECS, RDS), Azure
Monitoring :	Splunk, Grafana, Prometheus, AWS Cloudwatch
Management-Tools :	Git, Jira, Agile, SCRUM, Kanban

EXPERIENCE

Software Engineer | RevSpring Inc *Nashville, TN* Aug 2023 - Feb 2025

- Implemented event-driven messaging with Redis and SQS in **Java Spring Boot**, enhancing system responsiveness for processing data and serving real-time updates to **100,000 daily customers**.
- Utilized debugging to optimize database performance by resolving recurring deadlocks using **SQL index tuning, multi-threading, and distributed storage** strategies accelerating execution time by 43% (16s to 7s).
- Designed SSE event-streams leveraging **Kafka Pub-Sub** pattern for enhancing real-time data processing.
- Engineered a high-reliability, fault-tolerant FHIR API using AWS ECS, integrated with **CI/CD pipelines (Jenkins, CircleCI)** for seamless deployments with automated testing.
- Redesigned the duplicate claims dashboard using various key indicators in **React**, reducing the manual claim processing time from **24 minutes to 5 minutes**.
- Designed a scalable ETL pipeline using **Hadoop & Apache Spark** for large-scale datasets in a distributed systems environment, improving data processing efficiency and optimizing resource management.

Web developer | Oasis Technologies *Pune, India* Feb 2021 - Nov 2021

- Designed and built the front-end and back-end of an online tech bootcamp using **React, Node JS & Apollo GraphQL** in an Agile SCRUM environment, improving user experience and system efficiency.
- Developed **Bash scripts** for automating server health checks, log archival, and environment setup tasks in AWS EC2 instances, reducing manual intervention by 60%.
- Collaborated with **Product Managers & UX Designers** to design modular, reusable React components by leveraging **Material UI**.

Fullstack Developer | WE3 Solution *Mumbai, India* Aug 2020 - Dec 2020

- Built fault-tolerant **Java Spring Boot** applications with Circuit Breaker pattern for resilient data pipelines handling terabytes of data; enhanced flexibility by implementing a **Kotlin** service utilizing functional programming enabling the system to handle **200% traffic surges** (or 3x normal load).
- Created an **ETL** pipeline and **Visualization Dashboard** that extracted MongoDB data, processed it through an ingestion service for periodic updates, performed data modeling and visualized results using Chart JS.

Software Engineer Intern | I Knowledge Factory *Pune, India* Dec 2017 - Jan 2018

- Designed and deployed scalable infrastructure on **AWS EC2**, implemented automated unit testing with JUnit (85% coverage), and reduced post-production defects by 50% resulting in smoother customer experience.
- Leveraged test-driven development to develop and deliver features in **Java** & participated in intern code reviews to maintain operational excellence.

PROJECTS

- Jenkins Enhancement** | *Java, Jenkins, Git*:
Notable contributions to the Jenkins open-source project with updates, bug fixes, and enhancements.
- C-ShellWizard** | *C (language)*:
Developed a simple shell program in C with a command-line interface, command history, background process support, and job management features and more.

EDUCATION

Master of Computer Science , New Jersey Institute of Technology	2022 - 2023
Bachelor of Computer Engineering , Pune University	2015 - 2020