PRAVEEN SINGH

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SUMMARY

I am a product-focused software engineer with over five years of experience in developing, optimizing, and deploying scalable applications. Proficient in both front-end and back-end technologies, I specialize in Java, JavaScript, ReactJS, Vue.js, NodeJS, and Spring Boot. I have hands-on experience with microservices, software architecture, database management (SQL, NoSQL), Agile methodologies, and API integration. My strong foundation in DevOps, cloud technologies (AWS, Kubernetes), test-driven development, and CI/CD pipelines has contributed to building robust, scalable systems. Seeking an opportunity to leverage this diverse skill set for impactful contributions in a challenging role.

EDUCATION

Master of Science, Software Development, **BOSTON UNIVERSITY**   GPA 3.71, Sept 2023 – Jan 2025
Bachelor of Technology, Electronics and Communication, **INDRAPRASTHA UNIVERSITY**   Aug 2018 – July 2022

EXPERIENCE

NUBUS TECHNO   **Chicago, IL, USA**
Software Engineer   Jan 2025 – Present
- Developed React and Redux stage management client-side website, integrating RESTful APIs for CRUD operations.
- Created REST APIs with Spring Core, MVC, and Boot, reducing development time by 15% and enhancing modularity.
- Orchestrated deployment on Firebase hosting, ensuring optimal performance.
- Designed and developed the front-end and back-end logic of all layers for a crypto-based payment gateway.

METROPOLITAN COLLEGE, BOSTON UNIVERSITY   **Boston, MA, USA**
Graduate Assistant   Jan 2024 – December 2024
- Led agile software development process for a team of five developers.
- Developed an interface for managing email reports using Python 3, and ReactJS.
- Utilized strategic engineering procedures to improve the redirecting features that were built through Java and Angular.
- Collaborated with the design team to optimize the website's UI/UX, ensuring it was accessible and visually appealing.

TATA 1MG   **Gurugram, India**
Software Development Engineer 1   Feb 2022 – Aug 2023
- Launched a real-time pharmacy service, attracting 50,000+ users within 3 months, boosting engagement.
- Created user personas based on research data to guide design direction and user experience strategies.
- Collaborated with developers and product teams to meet cross-functional requirements, for superior user experience.
- Managed scalable AWS applications (EC2, Lambda), reducing deployment time by 20% with CI/CD workflows.
- Migrated transaction data from Kafka to Cassandra and developed SOAP web services, improving data efficiency.
- Integrated third-party APIs (geolocation, payment) to enhance features and increase transaction success by 10%.
- Created REST APIs with Spring Core, MVC, and Boot, reducing development time by 15% and enhancing modularity.

TATA CONSULTANCY SERVICES (TCS)   **New Delhi, India**
Software Engineer   May 2020 – Jan 2022
- Engineered a user-friendly UI using React, Redux, and ES6 increasing user engagement by 15,000 users post launch.
- Built highly scalable web applications with J2EE, Java, REST, JDBC, and Spring MVC, reducing load times by 30%.
- Developed efficient PL/SQL batch processes and Oracle data handling with Java, reducing processing time by 50%.
- Streamlined Kubernetes CI/CD pipelines, automating build and deployment, resulting in a 15% reduction in downtime.
- Optimized jQuery interactions to improve user experience, responsiveness, and reduce bounce rates by 15%.
- Followed TDD with JUnit, and integrated AWS for scalability and Hibernate for persistence reducing bugs by 40%.
- Executed multi-threaded REDIS failover for 99% uptime and developed reusable components, speeding dev by 25%.

COGNIZANT   **New Delhi, India**

Application Developer   May 2019 – Aug 2019

- Planned and designed user research to support UX projects, translating feedback into valuable product features aligned with organizational needs.
- Implemented Python microservices with bash scripting in Linux, reducing errors & boosting system efficiency by 40%.
- Transitioned legacy servers to the Jira database with Python scripts, ensuring smooth data migration and consistency.
- Led all SDLC phases using Agile methodology, ensuring iterative development and timely project delivery.
- Developed and deployed SaaS on GCP, using MySQL and Redis to support thousands of users with high performance.
- Developed Java/Python microservices on Kubernetes, reducing integration errors by 25%, improving data accuracy.
- Automated 1000+ test cases with Java/TestNG, cutting testing effort by 40%, accelerating time-to-market.

SKILLS AND STRENGTHS

- **Programming Languages:** Java, Python, C/C++, C#, SQL, JavaScript, Go, Kotlin, GraphQL, TypeScript, Ruby
- **Frameworks and Libraries:** Spring Boot, MVC, ReactJS, Redux, Node JS, ExpressJS, Angular, Log4, J2EE, .NET
- **Web Technologies:** HTML, CSS, Tailwind CSS, DOM, XML, Tomcat, AJAX, jQuery, JSON, CMS, fintech, JVM
- **Databases:** Oracle, SQL, MySQL, PostgreSQL, MongoDB, Apache Cassandra, NoSQL, DynamoDB, Snowflake
- **DevOps & CI/CD:** Jenkins, Docker, Kubernetes, Git, Maven, Gradle, Kafka, Jira, Scrum, Confluence, containerization
- **Cloud Technologies:** AWS (EC2, Lambda, S3), CloudFormation, Terraform, Microsoft Azure, Google Cloud Platform
- **Version Control and Operating Systems:** Git, GitHub, SVN, Windows, Unix, Linux, Ubuntu, Open Source
- **Tools, Technologies and Protocols:** JIRA, SOAP, SMTP, REST APIs, HTTP, JSP, Java Servlets, JDBC, RabbitMQ
- **Software Design & Principles:** Software Design Patterns, Object Oriented Programming (OOPS), Microservices
- **Quality Assurance & Others:** JUnit, TestNG, Postman, Selenium, Natural Language Processing, UI Design

PROJECTS

- **E-commerce Website** Repository
  - Includes full-featured shopping cart with PayPal & payments, ratings, search, carousel, & other customer services.
  - Optimized DB queries and indexing strategies in MongoDB, which boosted data retrieval speeds by 30%.
  - **Skills:** HTML, CSS, JavaScript, React JS, SQL, Redux, Node, Express, MongoDB.
- **Shekel: Cash Settlement App** Repository Website
  - The Split Wise Cashflow App solves most complex cash settlement problems by using Heaps in BE.
  - The algorithm resolves all amounts of 1 person at each step and then repeats for remaining n-1 persons.
  - **Skills:** HTML, CSS, JavaScript, Data Structures.
- **Advance Chat Application** Repository
  - Developed a chat application with end-to-end encryption and data security.
  - Used sockets to manage connections between the server and clients, reading and broadcasting messages.
  - **Skills:** Java, Spring Boot.