Om Patil Software Engineer

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Summary

Experienced Software Engineer with 3+ years of experience in both frontend and backend technologies, including Angular, React, Spring Boot, and Django. Proficient in cloud platforms like AWS, with expertise in deploying scalable applications. Strong knowledge of database management, Microservices architecture, and CI/CD pipelines. Adept at utilizing modern development tools and practices, including Agile methodologies, testing frameworks, and secure authentication, to deliver high-performance solutions in dynamic environments.

Technical Skills

- **Frontend:** Angular, React, TypeScript, JavaScript, HTML5, CSS3
- **Backend:** Java, Spring Boot, Node.js, Express.js, Django, REST APIs, GraphQL
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis
- **Cloud & DevOps:** AWS (EC2, Lambda, RDS, ECS, S3), Docker, Kubernetes, Jenkins, GitHub Actions
- **Testing**: JUnit, Mockito, Cypress, Selenium, PyTest
- **Computer Vision & ML:** OpenCV, Predictive Maintenance, Real-time Image Processing
- **Other Tools**: Git, Jira, IntelliJ, Bitbucket, Ansible , Postman, Firebase, WebSocket
- **Security:** OAuth2, JWT, SSL/TLS

Professional Experience

Software Engineer, *HSBC Bank*   Aug 2024 - Present | Remote, USA

- Engineered HSBC's Internal Transaction Monitoring Dashboard by leading full-stack development efforts and working closely with architecture, cybersecurity, and compliance teams. Followed Agile Scrum tactic and improved feature delivery velocity by 30% via structured sprint planning.
- Developed frontend in Angular using reactive design patterns and RxJS. Applied real-time WebSocket transaction streams, infinite scroll for large datasets, and advanced filtering. Integrated NgRx for robust state managing, improving application performance and UI responsiveness by 40%.
- Optimized data modeling and indexing in PostgreSQL deployed on AWS RDS. Enabled encryption at rest and in transit, configured automated backups and read replicas, and achieved a 35% reduction in query latency for high-volume financial data operations.
- Built distributed microservices using Spring Boot 3 and integrated Kafka for high-throughput message ingestion. Exposed secure RESTful APIs with HATEOAS support, implemented audit logging, and enforced access control using Spring Security with OAuth2 and JWT.
- Designed CI/CD workflows with AWS CodePipeline, CodeBuild, and SonarQube for code quality enforcement. Achieved 92% test coverage using JUnit 5, Mockito, and TestContainers, and reduced integration errors by 60% through automated testing and artifact versioning.
- Deployed services on AWS ECS using Fargate with application load balancing and auto-scaling policies. Configured observability with AWS CloudWatch, CloudTrail, and X-Ray for 99.95% system availability using blue-green deployment strategies and automated rollback procedures.

Software Developer Intern, *Chico State Enterprise*   May 2023 – July 2024 | USA

- Assisted in the development of innovative software solutions for civil engineering applications, contributing to the design, coding, and testing of systems aimed at automating infrastructure inspections using computer vision techniques.
- Worked on the development of a Real-Time Infrastructure Monitoring System using Python, OpenCV, and WebSocket, enabling the live detection of cracks and structural issues in infrastructure through continuous image analysis and real-time data updates.
- Contributed to the creation of a Predictive Maintenance System, integrating machine learning algorithms with image processing tools to predict the deterioration of infrastructure components and assist in maintenance planning by forecasting repair needs.
- Developed and maintained the back-end services using Django, integrated with machine learning models and databases, while contributing to the front-end interface with JavaScript to allow users to visualize real-time data and predictive insights.
- Participated in testing and debugging to ensure the robustness of developed solutions and created technical documentation for the systems to ensure smooth handovers and ease of use for future developers and stakeholders.

Associate Software Engineer, Cognizant Technology Solutions   Jan 2021 – July 2022 | India

- Developed and maintained a real-time chat application using React for the front-end and Spring Boot with Java for the back-end, ensuring a seamless, interactive user experience with instant messaging capabilities.
- Designed and implemented WebSocket-based real-time messaging features, allowing users to send and receive messages instantly, while also managing user connections and disconnections effectively for a consistent chat experience.
- Utilized MongoDB for storing user profiles, chat history, and message data, optimizing data retrieval and ensuring scalable storage for high volumes of user interactions and messages.
- Implemented secure user authentication and authorization using JWT (JSON Web Tokens), ensuring encrypted and safe user logins while adhering to industry-standard security practices.
- Deployed the application on AWS infrastructure using Docker containers, streamlining the development-to-production pipeline and
- ensuring the application's scalability, availability, and easy maintenance.

Education

Master of Science, *California State University*   08/2022 – 08/2024 | Long Beach, CA, USA
Computer Science
Bachelor of Technology, Vishwakarma Institute of Technology   08/2018 – 08/2022 | Pune, India
Computer Science