SANDESH SHARMA

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I'm a passionate Senior Software Engineer with over 8 years of experience building and leading enterprise-level applications. I specialize in designing and migrating legacy Java systems to the cloud, creating scalable solutions, and building microservices that help businesses thrive. My expertise spans **Java**, **Spring Boot**, **REST APIs**, **Databases (SQL & NOSQL)** and front-end technologies like **Angular** and **React**. I love collaborating with diverse teams and guiding them on best practices to deliver high-quality, scalable software solutions that meet both technical and business goals.

Skills

- **Core Technologies**: Java, J2EE, Spring Boot, Spring MVC, React, Angular, jQuery, HTML, JavaScript, CSS, Node, Oracle, PostgreSQL, NoSQL, My Batis, RESTful APIs
- **Cloud & DevOps**: AWS, GCP, Docker, Kubernetes, Jenkins, CI/CD, Lambda
- **Architectural & Design Patterns**: Microservices, Distributed Systems, Cloud Architecture, MVC, Agile, Design Frameworks, Architecture Diagrams
- **Collaboration & Leadership**: Agile methodologies, Team leadership, Code reviews, technical documentation, Client communication
- **Languages**: English, Hindi, Nepali – Professional proficiency

Experience

Personal Health Leave *November 2024 – March 2025*
Took a brief medical leave for personal health reasons. Fully recovered and actively seeking new opportunities in software development.

Senior Software Engineer   **Bank of America**   *Newark, DE, USA*   **04/2024 – 11/2024**

- Led the **feature development team** for the **Fraud Detection and Prevention** project, which prevents over $750 million in credit card fraud annually.
- Migrated legacy **Spring Integration APIs to Spring Boot**, resulting in a **20% reduction in API latency** and improved system responsiveness.
- Engineered and deployed scalable REST APIs using **Spring Boot and Hibernate** on **AWS**, supporting millions of requests daily and handling high-volume fraud data.
- Implemented **containerization using Docker**, deployed in AWS Cloud via Kubernetes and Helm, optimizing infrastructure management and resource utilization.
- Collaborated with cross-functional teams (QA, Architecture, DevOps) to define clear **technical requirements**, provide solutions, and ensure the system met high availability and security standards.
- Led **code reviews, unit testing, and stress/load testing** to ensure robust and scalable applications.
- Coordinated migration and integration efforts for cloud adoption, improving system reliability and performance.

Senior Software Engineer   **SID Global Solutions**   *Exton, PA, USA*   **03/2022 - 03/2024**

- Designed and developed the **Smart API Marketplace (SAM)**, a Java-based enterprise solution using **Java 17, Angular, AWS, Kafka, and PostgreSQL**, supporting real-time API management for 100+ clients.
- Optimized **cron jobs** and multithreading techniques, cutting job run time by **60%** and saving **50% in AWS costs** associated with backend jobs.
- Spearheaded **API performance optimization**, reducing response time for monetization APIs from 4 seconds to 2 seconds, contributing to a **22% increase in customer base**.
- Led the development of **microservices** and integrated **Apigee X** for API monetization and management, delivering a **15% cost reduction** on API infrastructure.
- Directed the **release of SAM version 3.2.1 a month ahead of schedule**, lowering overall development costs by **15%**.
- Mentored a team of 5 junior developers and guided them through complex design patterns, unit testing practices, and continuous delivery pipelines.

Senior Java Developer   **Deerwalk Inc**   *Kathmandu, Nepal*   **01/2018 - 12/2019**

- **Led the backend development** of Nepal's largest hospital management application, supporting 1M+ active users and **improving system scalability** with microservices.
- Migrated legacy monolithic services to **cloud-native, containerized applications** using **Docker and Kubernetes**, reducing response times by **15%** and streamlining deployments.
- **Engineered the Telehealth module**, which boosted digital consultations by **20%** and increased hospital revenue by **30%**.
- Integrated **Google Calendar API**, reducing patient appointment no-show rates by **15%**.
- Directed cross-functional collaborations for high-impact integrations, including **lab data exchanges and insurance provider APIs**.
- Mentored and developed a team of 3 junior developers, conducted code reviews, and promoted coding best practices across teams.

Java Developer   **Deerwalk Inc**   *Kathmandu, Nepal*   **11/2014 - 12/2017**

- Developed core modules for the hospital management system using **Java 8, Hibernate, and MySQL**.
- Built and maintained **API integrations** with external healthcare services using **XML/JSON**.
- Participated in the full **SDLC**, collaborating with stakeholders to gather requirements, iterate on designs, and ensure delivery on time.
- Optimized backend performance by **refining SQL queries** and improving data storage and retrieval operations.
- Created **user-facing dashboards** for hospital administrators, enhancing decision-making with real-time data insights.

Java Developer, Intern   **Deerwalk Inc**   *Kathmandu, Nepal*   **09/2014 - 11/2014**
- Analyzed and understood the organizational codebase, developed a single-page application using AngularJS, handled development, testing, and deployment on Apache Tomcat 7.0, gained hands-on experience with Spring Boot and Apache Kafka, participated in daily Scrum meetings and agile team discussions.

Education

Master of Science   **Binghamton University**   *Binghamton, NY, USA*   **01/2020 - 12/2021**
- Major in Computer Science, GPA - 3.9

Projects

- **SAM:** Designed the Entire backend of Smart API Marketplace (SAM). Link to SAMi **(03/2024)**
- **VENOM:** Contributed to a Fraud Detection and Prevention project called VENOM. Link to BofA Venom Project. (**11/2024)**

Mentorship

- **Deer Camp Mentor:** Coding Bootcamp Mentor responsible for mentoring and giving career advice to SWE students **(01/2014 - 04/2014)**
- **Graduate Teaching Assistant:** Programming | Data Structure and Algorithms | Operating System **(02/2021 - 12/2021)**

Others

- **International Diversity Initiative Fellowship**: Won diversity fellowship worth $30,400 for graduate studies at Binghamton-U **(09/2019)**
- **Deer Coders Champion**: Won intercollege Coding Competition **(02/2014)**