

SANDESH SHARMA

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Skills

- Java | JavaScript | C++ | C | Node | PostgreSQL | Oracle | Cassandra | NoSQL | Angular | Spring Boot | Spring MVC | Spring Security
- AWS | GCP | Cloud Computing | CI/CD | TDD | Cucumber | CloudWatch | Unit Testing | Lambda | OOP | Git | Kubernetes | Docker | Jenkins
- Microservices | Distributed Systems | API | Frontend | Backend | Full-Stack | English, Hindi, Nepali – All professional proficiency or above

Experience

Senior Software Engineer

Bank of America

Newark, DE, USA 04/2024 - 11/2024

- Collaborated with the team for the design and development of enterprise-level microservice applications for the **Fraud Detection and Prevention Project** preventing over **\$750 million** worth of Credit Card Fraud.
- Designed and implemented REST APIs for serving and managing fraud data using **Spring Boot, Hibernate, and Oracle** and deployed **Docker Container Image** in **AWS Cloud** using Kubernetes CLI and Helm Chart serving **millions** of fraud data requests daily.
- Led the API Migration team for the migration of REST API's from Spring Integration to Spring Boot decreasing the API latency by **20%**.
- Enriched system metrics by integrating the platforms with telemetry; facilitated in-depth logging by correlating APIs with vector contexts.
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, load/stress testing, unit/integration/e2e testing

Senior Software Engineer

SID Global Solutions

Exton, PA, USA 02/2022 - 03/2024

- Designed and developed an enterprise Java application called Smart API Marketplace (SAM) using **Java 17, AngularJS, AWS, Kafka, and PostgreSQL**.
- Optimized Cron Job using **Thread Pool** and **Multithreading** reducing the Job run time by **60%** saving **50%** on **AWS** cost incurred for job.
- Brought down the response time of monetization APIs from 4 seconds to 2 seconds by optimizing **Database Queries** and integrating **Apigee X** with SAM resulting in a **22%** increase in customer base.
- Saved development cost by 15% with the release of SAM version 3.2.1 a month before the scheduled **GA** release.

Software Engineer

Deerwalk Services

Kathmandu, Nepal 12/2014 - 12/2019

- Designed and implemented a healthcare application for Nepal's largest Hospital handling 1 million active users using **Java 8, Spring Boot, MySQL, Node, JSON, and XML**.
- Collaborated with the dev team to develop a **Telehealth feature** that increased the user base by 20% and generated 30% more revenue for the hospital.
- Reduced the patient's appointment missing rate by **15%** with Google Calendar integration in the application.
- Convinced management committee to move to containerization technologies significantly reducing the **API response time** by **15%**.

Java Trainer

Super Brain Web Technologies

Kathmandu, Nepal 09/2016 - 12/2019

- Provided Java Training to the CS students and help them build real world **Java J2EE** applications.

Software Engineer, Intern

Deerwalk Services

Kathmandu, Nepal 09/2014 - 12/2014

- Learned about **HTML, CS, Javascript, Java, Hibernate, and Maven** and more importantly got hands-on experience in all the phases of **SDLC**.

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

- **DeerCamp Mentor**: Coding Bootcamp Mentor responsible for mentoring and giving career advice to SWE students (01/2021 - 04/2022)
- **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)
- **DeerCoders Champion**: Won intercollege Coding Competition (02/2014)