Sangam Shrestha

423-672-8789 | stha.sngm88@gmail.com | Pinole, CA, USA

SUMMARY

Software Engineer with 4+ years of experience in backend and full-stack development. Skilled in Java, Spring Boot, .NET, AWS, and REST APIs. Strong track record in building scalable, secure cloud applications and improving performance.

EDUCATION

EAST TENNESSEE STATE UNIVERSITY

M.S. in Computer Science - 3.9 GPA

May 2025 | Johnson City, TN

SKILLS

BACKEND Java 8/11/17/21, Spring Boot, SpringAI, Swagger (OpenAPI), C#, REST APIs, JPA, Hibernate, JDBC, Python, Microservices

FRONTEND Angular 8/9/10/11/12/13, TypeScript, JavaScript, HTML5, CSS3, SCSS, Material Design

CLOUD & DEVOPS: AWS (EC2, S3, CloudWatch, RDS, IAM), Docker, Kubernetes, CI/CD, CloudFormation, Blue-Green, Canary

DATABASE: MySQL, PostgreSQL, SQL Server, MongoDB

SECURITY & APIS: RESTful APIs, OAuth2, JWT, Spring Security

TESTING: JUnit, NUnit, Cucumber

TOOLS PROCESS: GitHub, Bitbucket, JIRA, Confluence, Agile, IntelliJ, Maven, NPM

LINKS

LinkedIn.com/sangamstha
GitHub.com/sangamsthxa
Portfolio.com/sangam-shrestha

COURSEWORK

Software Engineering
Software Design
Software Verification and Validation
Data Analysis
Machine Learning
Natural Language Processing

PROFESSIONAL EXPERIENCE

EAST TENNESSEE STATE UNIVERSITY
Software Engineer
June 2025 - Present | Johnson City, TN

- Built a PWA using C#, .NET & JavaScript adopted by 25+ schools, digitizing IEPs and enabling offline access, improving compliance and access for 1,000+ students.
- Integrated Google Translation API for bilingual English–Marshallese support, expanding accessibility by 40%+.
- Deployed via Docker on AWS EC2, ensuring 99.9% uptime and reducing operational overhead.
- Implemented centralized CloudWatch logging, cutting issue resolution time by 40%.

EAST TENNESSEE STATE UNIVERSITY
Graduate Teaching Assistant
Aug 2023 - May 2025 | Johnson City, TN

- Taught C#, .NET Core, JavaScript to 100+ students through labs and live coding, raising average class grades from C- to B.
- Conducted code reviews and debugging workshops, improving project quality and coding standards.
- Mentored new TAs, standardizing instruction and enhancing team consistency.

BMP INFOLOGY PVT. LTD.
Software Engineer
Nov 2018 - June 2023 | Kathmandu, NP

- Developed backend microservices for ERP modules, reducing query response times from 15s to <3s.
- Led migration of legacy monolith to microservices, reducing infrastructure costs by 25%.
- Built a multilingual Angular frontend (English, Chinese, Japanese), increasing international adoption.
- Secured APIs with JWT and RBAC, strengthening data integrity and compliance.

PROJECTS

ONLINE DELIVERY MANAGEMENT SYSTEM
Mar 2019 - Aug 2019
Engineered a full-stack delivery management platform, integrating the MapBox API for real-time routing and Dijkstra's algorithm for shortest-path calculations.

LAYOFF RISK PREDICTION MODEL
Feb 2024 - Jun 2024
Achieved 93% accuracy in predicting layoffs using ML, enabling proactive HR workforce planning.

AIRLINE SENTIMENT ANALYSIS
Sep 2024 - Dec 2024
Analyzed 23K+ customer reviews with DistilBERT, extracting insights to improve customer satisfaction in airline services.

AWARDS / ACTIVITIES

Year	Rank	Award
2022	Top 1/100	Academic Excellence Award
2018	Top 4/25	Hack By Girls in ICT Hackathon
2017 (1 week)		Tech Camp Bootcamp