Ansh Sharma

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Summary

Software Engineer with experience in full-stack and cloud-native applications (AWS, Azure). Skilled in microservices, secure coding (OWASP, OAuth2/JWT), and DevOps automation (Docker, Kubernetes, Jenkins, Terraform). Strong foundation in testing, database optimization, and published IEEE research in deep learning.

Experience

Software Engineer Intern — EyCrowd, San Francisco, CA Jun 2025 – Present

- Built cross-platform software applications in React Native using Jest & React Testing Library, optimizing performance.
- Integrated Salesforce CRM, Mixpanel, and WebSockets for real-time analytics, improving customer engagement through data-driven insights.
- Containerized Node.js microservices using Docker and Kubernetes, improving deployment speed by **40%** and enhancing system resiliency.
- Strengthened scalability, security, and fault tolerance while introducing LLM-based predictive automation features, reducing Mean Time to Recovery (MTTR) and increasing daily active usage by **25%**.

Software Developer Intern — RoundTechSquare, San Francisco, CA Jan 2025 – May 2025

- Built cloud-native inventory system using React.js, AWS, Spring Boot MVC, and microservices in a service-oriented architecture; experience transferable to Azure.
- Automated CI/CD pipelines with Jenkins & GitHub Actions; implemented SLOs/SLIs with telemetry, alerting, and Grafana monitoring to improve uptime.
- Optimized APIs for performance and security; implemented Kafka-based distributed messaging and Redis caching, reducing manual errors by **30%** with accountability.
- Collaborated with QA and product teams using Agile/Scrum and SDLC best practices to ensure scalable, customer-focused solutions with targeted improvements to detect anomalies.

Full Stack Developer — Hiration Career Technologies, Delhi, India Jun 2020 – Nov 2022

- Developed modular React/Next.js components integrated with Node.js, REST APIs, and NLP for SaaS solutions.
- Led frontend testing with Jest & Mocha; achieved **95% code coverage** using JUnit & JaCoCo via TDD.
- Improved SSR performance by **20%**, deployed on Vercel, and implemented design patterns for maintainable, accessible UI/UX.

Projects

Agile Realms Fall 2023

- Led Scrum-based development of a Java Swing application using Gradle for build automation; integrated Git & SVN for version control and prioritizing customer needs.
- Achieved **90% test coverage** through TDD with JUnit, improving maintainability and quality.

Deep Learning Object Detection Spring 2023

- Designed YOLO + Sliding Window model trained on PASCAL VOC12 for object detection, improving FP efficiency by **9.5%**.
- Published peer-reviewed IEEE paper on scalable detection systems. Link: https://ieeexplore.ieee.org/document/10104969

Education

Arizona State University, Tempe, AZ Aug 2023 – May 2025
M.S. in Software Engineering (GPA: 3.85/4.00)

Netaji Subhas University of Technology, East Campus (Formerly GGSIPU), Delhi, India Aug 2019 – May 2023
B.S. in Electronics & Communication Engineering (GPA: 8.32/10.00)

Technical Skills

Languages: JavaScript (TypeScript), Python, Java, C++, SQL, HTML/CSS
Frameworks & Libraries: React.js, React Native, Next.js, Node.js, Redux, REST APIs, GraphQL, Jest, JUnit, Cypress
Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, Terraform, CI/CD Pipelines
Databases & Tools: Security (OWASP, OAuth2/JWT), System Design (Microservices, Event-Driven), Testing (Unit, Integration, E2E), Monitoring (Grafana, ELK), Git, GitHub/GitLab, Postman, Swagger, Figma, PostgreSQL, MySQL, NoSQL

Leadership & Volunteering

Teaching Assistant — Arizona State University Aug 2023 – May 2025

- Assisted in Software Engineering courses @ASU:- SER315: Software Design and Processes, SER321: Principles of Distributed Software Systems, SER450: Computer Architecture. Held weekly office hours, reviewed assignments, and provided feedback to improve students' problem-solving skills.

Special Education Teacher — Eklavya NGO Nov 2021 – Jan 2022

- Mentored underserved students in Computer Science, API development, and Agile principles through collaborative learning.
- Delivered structured, project-based curriculum to improve problem-solving, adaptability, and growth mindset.