Ansh Sharma

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Summary

Software Engineer skilled in full-stack and cloud-native development (AWS, Azure, GCP) with expertise in microservices, DevOps automation (Docker, Kubernetes, Jenkins), and applied AI. Published author with IEEE.

Core Areas: Full-Stack Development · Cloud-Native · Distributed Microservices · Applied AI · DevOps · Quality Assurance

Experience

QA Analyst/Software Engineer — EyCrowd, San Francisco, CA — Jun 2025 – Nov 2025
- Built cross-platform React Native apps with Jest testing, improving load performance by 30% and reducing UI defects by 40%.
- Containerized Node.js microservices with Docker and Kubernetes, integrated Salesforce CRM, Mixpanel, and WebSockets to **boost engagement by 25%**.
- Delivered LLM-based predictive automation to enhance scalability and reliability, **cutting MTTR by 35% and accelerating deployment cycles by 40%**.

Software Engineer — RoundTechSquare, San Francisco, CA — Jan 2025 – May 2025
- Built a cloud-native inventory system using React.js, Spring Boot, and AWS microservices, improving scalability and enabling seamless deployment across environments.
- Automated CI/CD pipelines with Jenkins and GitHub Actions, integrating SLOs/SLIs and Grafana monitoring to **boost system uptime by 25%**.
- Optimized APIs with Kafka messaging and Redis caching, enhancing performance and **reducing manual errors by 30%** through secure, event-driven workflows.

Teaching Assistant — Arizona State University, Tempe, AZ — Aug 2024 – May 2025
- Conducted coding sessions, improving students' assignment completion rates by **15%**. Facilitated Agile methodologies such as Scrum, TDD, and Git version control in course projects.
- Collaborated with faculty to refine the curriculum, increasing course enrollment by **10%** and integrating CI/CD pipelines and containerization tools.
- Courses: SER315: Software Design and Processes, SER321: Distributed Software Systems, SER450: Computer Architecture.

Projects

Aligned Rewards — Spring 2025
- Developed an AI rewards chatbot using Node.js and GPT-4 APIs, deployed on alignedrewards.com, personalizing engagement and **automating 80% of support tasks**.
- Built a QA dashboard with AWS S3, CloudWatch, and Redis, **reducing latency by 45% and improving accuracy tracking across 10K+ sessions**.

Agile Realms — Fall 2023
- Led Scrum-based development of a Java Swing app with Gradle automation and Git/SVN version control, **improving delivery efficiency by 30%**.
- **Achieved 90% test coverage through TDD with JUnit**, enhancing code reliability and long-term maintainability.

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, React Native, Next.js, Node.js, Express, Redux, GraphQL, Jest, JUnit, Cypress
Cloud & DevOps: AWS, Azure, GCP, Docker, Kubernetes, Jenkins, Terraform, CI/CD, Grafana, ELK
Databases & Systems: PostgreSQL, MySQL, Redis, NoSQL, Kafka, Microservices, Event-Driven Architecture
Security & Tools: OWASP, OAuth2/JWT, Git/GitHub/GitLab, Postman, Figma, Testing (Unit, Integration, E2E)

Leadership & Volunteering

Special Education Teacher — Eklavya NGO — Nov 2021 – Feb 2022
- Mentored underserved students in Computer Science and Agile principles through project-based learning, enhancing problem-solving skills and adaptability.