ANSH SHARMA

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Summary

Full Stack Software Engineer with experience building cloud-native applications using React, Node.js, and AWS. Skilled in developing REST APIs, working with PostgreSQL, and integrating AI-powered features using GPT APIs.

Experience

Full Stack AWS Developer — MindSpark, Remote — Dec 2025 – Present
- Built and maintained full-stack features using React, AWS Lambda, and PostgreSQL (Aurora v2) to support scalable, cloud-based application workflows.
- Developed backend logic and integrations using Google Apps Script, enabling automated data flows between frontend components and AWS services.

QA Analyst/Software Engineer — EyCrowd, San Francisco, CA — Jun 2025 – Nov 2025
- Improved React Native feature reliability by writing and executing unit tests with React Testing Library/Jest and JUnit, **increasing test coverage by 15%** and reducing recurring UI issues across iOS/Android.
- Assisted engineers in validating API integrations, debugging real-time app behavior, and supporting CI/CD workflows using Docker and Jenkins, while coordinating with product/design teams to ensure feature readiness in an Agile sprint environment.
- Enhanced app quality through device-level physical testing, documenting defects, repro steps, and regression cases to improve issue resolution efficiency across iOS and Android.

Software Engineer — RoundTechSquare, San Francisco, CA — Jan 2025 – May 2025
- Contributed to the Aligned Rewards chatbot by developing frontend interactions in React.js and assisting with Python-based logic and GPT API integration, improving customer experience and reducing repetitive support tickets by **10% per month**.
- Built a QA monitoring dashboard using AWS S3 logs to track chatbot behavior, analyze request/response patterns, and support debugging for product and engineering teams, improving customer support and issue-resolution efficiency by **25%**.
- Assisted in testing new platform features using AWS EC2 instances, documenting defects, validating flows end-to-end, and collaborating with cross-functional teams during Agile sprints.

Projects

CalTrack — Fall 2025
- Built a full-stack calendar and event-tracking application using React (Vite), Node.js, Express, and PostgreSQL, implemented JWT-based authentication, RESTful APIs, and complete CRUD workflows for events.
- Integrated a multi-agent project-planning assistant using LangChain, LangGraph, and LangSmith, enabling coordinated task decomposition, planning workflows, and agent observability to support intelligent scheduling and project organization.

Agile Realms — Fall 2024
- 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

Programming & Web Fundamentals: TypeScript, JavaScript, Python, Java, SQL, Data Structures, Algorithms, OOP
Full-Stack & Frontend Development: React, Next.js, Component-Based Architecture, State Management, Responsive Web Design, RESTful APIs
Backend, Cloud & Infrastructure: Node.js, Express, PostgreSQL, Relational Schema Design, JWT Authentication, AWS (Lambda, EC2, S3)
Software Engineering Practices: Agile/Scrum, SDLC, CI/CD, Unit Testing (Jest, JUnit), Git Version Control, Debugging

Leadership & Volunteering

Teaching Assistant — Arizona State University, Tempe, AZ — Aug 2024 – May 2025
- Led coding sessions and supported course projects in software design and distributed systems, reinforcing Agile practices, Git-based workflows, concurrency, inter-process communication, system architecture, and computer architecture fundamentals.