

# 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.
- Implemented REST APIs using Node.js and Express to support frontend features and database operations.

### 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

### Aligned Rewards

Spring 2025

- Developed an AI-powered rewards chatbot by building frontend interactions in React.js and integrating GPT APIs with Python-based logic, improving user response consistency and reducing average query-handling time by **18%**.
- Built a QA dashboard using AWS S3 logs to analyze chatbot request/response patterns, monitor behavior trends, and support debugging across teams, accelerating root-cause identification by **22%**.

### 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

(GPA: **3.85/4.00**)

M.S. in Software Engineering

### Netaji Subhas University of Technology, East Campus (Formerly GGSIPU), Delhi, India

Aug 2019 – May 2023

(GPA: **8.32/10.00**)

B.S. in Electronics & Communication Engineering

## Technical Skills

**Programming & Software Development:** Python, JavaScript, Java, Software Development Fundamentals, Data Structures, Algorithms, Object-Oriented Programming, Modular Coding, Debugging

**Systems & Platforms:** Linux and Windows Environments, UNIX Systems, Multi-Platform Software Concepts, System-Level Programming Fundamentals, Hardware–Software Interaction Basics

**Databases & Backend Technologies:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB), RESTful APIs, Backend Services

**Testing, Debugging & Collaboration:** Unit and Integration Testing, Test Execution, Defect Identification and Logging

## 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.