

ANUSHKA SINGH

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PROFESSIONAL SUMMARY

Results-driven Software Engineer skilled in building scalable systems, modern full-stack applications, and embedded programming. Proficient in user interface design, backend development, and performance optimization with strong security practices. Experienced in testing, version control, problem solving and cross-functional collaboration to deliver high-quality software.

EDUCATION

Manipal University Jaipur

Bachelor of Technology in Computer and Communication Engineering

Jaipur, Rajasthan

2020 - 2024

EXPERIENCE

Silicon Labs | Associate Software Engineer

June 2024 - May 2025

- Designed and implemented user-facing features for embedded applications using **embedded C, Python**.
- Resolved critical and blocker issues, reducing customer-reported problems by 40% globally for SOC Wi-Fi chips.
- Integrated third-party APIs enhancing application functionality and data exchange capabilities.
- Improved encryption/decryption features for secure communications that improved system security by 40%.
- Worked on power-save and firmware OTA update mechanisms reducing energy consumption by 35% for IoT devices.
- Conducted thorough testing achieving full code coverage in WLAN for embedded systems.

Usthann Integration Solutions | SDE Intern

Jan 2024 - June 2024

- Engineered product search functionality for 10,000+ users, increasing engagement metrics by 25%.
- Implemented database optimizations reducing query times by 40% and developed responsive web application.
- Developed unit and end-to-end test suites using **Jest and Cypress**, increasing application stability by 30%.
- Built dynamic cart updates and secure checkout using **Angular, TailwindCSS, TypeScript, Node.js, AWS services**.

PROJECTS

HealthTrack | *ReactJS, NodeJs, ExpressJS, SQL, Javascript* | [Live Demo](#)

- Engineered secure medical records platform with advanced encryption and role-based access control.
- Developed RESTful API integration with lab systems enabling 30% lower insurance premiums through health data analysis.

OrganicMarket | *AngularJS, ExpressJs, NodeJs, Typescript* | [Live Demo](#)

- Created e-commerce solution with secure payment processing, increasing sales conversion by 28% via ML recommendations.
- Optimized image delivery pipeline reducing page load times by 40% and improving mobile responsiveness.

CERTIFICATIONS & ACHIEVEMENTS

- Certifications: Data Structures and Algorithms, Machine Learning, MERN Development, Google Cloud, PWC Data Analytics
- Programming: 800+ DSA problems solved on LeetCode/HackerRank, published ML research papers, Smart India Hackathon 2023 Finalist, contributed to Apache Software Foundation, open source contributor.

TECHNICAL SKILLS

Programming:	C/C++, Python, JavaScript, TypeScript, Java, HTML/CSS, Assembly, Linux
Frameworks:	React, Angular, Node, Express, Next, Jest, Cypress, REST API
Database , Cloud:	MongoDB, SQL, DynamoDB, AWS, GCP
Tools:	Git, Bitbucket, Jira, RTOS, ARM Cortex-M, JTAG/SWD, EFR32, SoC, NCP, Bootloader