Sneha Bejugam

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Professional Summary

New-grad Software Engineer with hands-on experience building scalable, full-stack, cloud-native applications in startup and enterprise environments. Skilled in React, Angular, Node.js, Spring Boot, and AWS, with proven production impact.

Experience

Full Stack Developer Intern, Word of Mouth Technologies, Inc. - Nevada, USA Jan 2025 – Present

- Served as one of the founding engineers, taking ownership of the platform's architecture and full-stack development roadmap from inception to deployment.
- Developed Angular frontend with Firebase Authentication and PostgreSQL-backed application data.
- Integrated the LipNet machine learning model using Docker to overcome legacy dependency issues, enhancing accessibility and improving the experience for hearing-impaired users by **75%**.
- Implemented Azure Speech Services with optimized API design, enabling real-time speech processing that increased user engagement by **60%**.

Associate Software Developer, UnitedHealth Group - Hyderabad, India Jan 2022 – Dec 2023

- Engineered a standardized deployment framework to automate releases for PySpark, Scala, and Python applications, building Spring Boot APIs for deployment and status tracking with MySQL storage and improved reliability across teams.
- Migrated the core deployment platform UI from .NET to React, modernizing the interface and improving page load speed by **30%**, enhancing maintainability and user experience.
- Built a React-based internal onboarding portal integrated with enterprise SSO, reducing onboarding time and improving new-hire integration across cross-functional teams.
- Worked in an Agile, cross-functional environment to improve backend APIs and frontend integrations, reducing integration defects by **35%**.
- Automated ETL pipeline scheduling using Airflow DAGs, removing manual execution steps and saving 3+ engineer hours daily while improving operational consistency.

Technical Projects

FashON: AI-Powered Personal Styling Mobile Application (Flutter, Firebase, OpenAI API)

- Built an end-to-end AI-powered fashion mobile app using Flutter and Firebase with 6 core modules including digital closet management, AI outfit recommendations, and style compatibility analysis.
- Designed a modular MVVM architecture across 15+ screens with 10+ Views and 4 data models.
- Integrated OpenAI API to generate personalized outfit visualizations based on user attributes (height, weight, age, gender), enabling virtual try-on experiences and increasing user engagement by **30%**.

Ventilator Assistance Portal (JavaScript, Node.js, MongoDB, Postman)

- Deployed a real-time ventilator tracking system connecting **12 hospitals**, monitoring **200+** ventilators across the network and enabling **30%** faster critical care resource allocation during COVID-19 surge periods.
- Built 8 RESTful APIs using Node.js and MongoDB with <150ms response times, at **99.8%** uptime, verified through 120+ automated Postman test suites.

Resume Ranking and Analyzing System (React, Flask, spaCy, TF-IDF)

- Improved resume screening efficiency by **60%** by building a Python-based analysis system leveraging spaCy, TF-IDF, and scikit-learn to parse resumes, extract key skills, and rank candidates by job relevance.
- Reduced recruiter review time by **40%** by designing a Flask-based microservices architecture integrated with Google's Gemini API, enabling intelligent PDF processing and ML-driven candidate summaries.

Skills

Programming Languages: Java, Python, C++, JavaScript, TypeScript

Frontend: React, Angular, Next.js, Flutter, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Spring Boot, Flask, FastAPI, RESTful APIs, Microservices

Databases: PostgreSQL, MySQL, MongoDB, Snowflake

Cloud & DevOps: AWS, Azure, Docker

Tools: Postman, Git, Jira, VS Code

Education

MS in Computer and Information Science, Syracuse University | GPA: 3.67/4.0 Jan 2024 – Dec 2025

Course work : Data structures and Algorithms, Design and analysis of Algorithms, Advanced Java Concepts, Database Systems, Computer Architecture, Operating Systems, Concurrent & Parallel Computing and Systems Programming