Anmol Sansi

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SUMMARY

Software Engineer with 4+ years of experience in software development, AI tools, and cloud-native solutions. Skilled in Python, Java, AWS, and full-stack frameworks like React and Spring Boot. Proven ability to own the full product lifecycle, from MVP ideation to scaling in production. Passionate about building scalable, high-performance systems and leveraging AI/ML to solve real-world problems. Thrives in agile environments with strong cross-functional collaboration. Committed to fast shipping, continuous user feedback loops, and building with empathy.

SKILLS

Python | Java | TypeScript | CSS | HTML | C++ | XML | React | NodeJS | JavaScript | GitLab | Git | Jira | IntelliJ IDEA | PyCharm | Postman | Eclipse | Version Control | Azure | Google Cloud Platform (GCP) | Amazon Web Services (AWS) | MySQL | SQL | DynamoDB | MongoDB | NoSQL | NestJS | PostgreSQL | Firebase | PL/SQL | Spring Boot | Spring | Pandas | Unit Testing | Flask | Jenkins | Django | NumPy | Junit | Mockito | Pyspark | Express | REST API | JSON | Swagger | Microservices | Maven | JVM | Docker | Kubernetes | Terraform | APIs | Data Analytics | SOAP | Excel | Redux | NextJS

WORK EXPERIENCE

Full Stack Engineer – Alphadroid US (USA)   May 2025 – Present
- Built a multilingual, voice-assisted platform using React, NestJS, Python, Unity WebGL, and ChatGPT to streamline patient registration and hotel operations, reducing intake time by 30%, increasing form completion rates by 40%, and enhancing accessibility for diverse users.
- Architected and deployed a full-stack AI hotel agent with React on frontend and Node.js / OpenAI on backend, to handle daily guest interactions in natural language, supporting 5+ languages and accents. Enhanced React performance and responsiveness, improving page load times by 25%.
- Designed scalable APIs using TypeScript and implemented data storage using PostgreSQL for structured, real-time updates. Developed authentication and integrated OpenAI Multi-Function Calling to automate complex backend workflows.

Software Engineer Intern - Reality AI (Chicago, USA)   Aug 2024 – Feb 2025
- Built AI-powered quiz using Google Gemini, LLMs, and NLP; optimized performance by 10% and increased engagement by 20% with React for frontend and Node.js for backend.
- Optimized backend performance for the Kai feature by reducing API response times through code refactoring, database indexing, and implementing both application and database-level caching, resulting in faster and more efficient data retrieval during peak usage.

Java Teaching Assistant - Illinois Institute of Technology (Chicago, USA)   Sept 2023 – May 2024
- Facilitated Java sessions for over 100+ students, managing classroom logistics to ensure smooth, project-based learning experiences with targeted individualized support.
- Used Excel and Power BI to analyze engagement data, tailoring support strategies and boosting effectiveness by 25%.

Associate Software Engineer - S&P Global (New Delhi, India)   Jul 2019 – Dec 2022
- Part of a cross-functional team of 20+ to develop a scalable New Pricing Platform and Reference Data.
- Accelerated development, end-to-end and debugging efforts using Java, Test Driven Development (TDD) principles and unit testing, aligning with business values and requirements, and integrating new features, resulting in a 50% performance boost in the existing product.
- Developed Python and Java-based backend systems and 100+ RESTful APIs to manage financial data records (1M+ records), enabling improved data integrity in high-volume market environments. Boosted revenue while reducing maintenance costs by 40%.
- Built and maintained cost optimized ETL pipelines using Python and AWS Data Infrastructure (DynamoDB, Lambda, Kinesis, API Gateway), improving data handling by 40% and cutting costs by 15%. Integrated SQS for async event-driven processing and contributed across the full SDLC.
- Participated in on-call rotations, diagnosing and resolving production incidents, ensuring 99.9% service uptime.

Projects

Resume Tracker – Serverless Web Application
- **Technologies** – Python, AWS Lambda, DynamoDB, API Gateway, S3, SES and React
  - Designed and developed a serverless backend system to track job applications, integrating RESTful APIs with DynamoDB for CRUD operations. Used S3 to store resumes and cover letters, with SES and CloudWatch for weekly follow-up email alerts.

The Movie Review – Android Application
- **Technologies** – Java, Kotlin, TMDB and OMDB APIs, Firebase, YouTube Web API and SQLite
  - Implemented TMDB and OMDB APIs to manage 10,000+ movie entries and integrated YouTube trailers. Added a favorites feature, boosting user retention by 25%. Managed user authentication with Firebase for 500+ users and enabled offline data access with SQLite.

Task Management Application – Desktop Application
- **Technologies** – Python, Tkinter Library and SQLite
  - Designed and implemented a Tkinter-based task management interface with features for task creation, editing, and deletion. Familiar with Elasticsearch based indexing and search relevance tuning. Improved task management efficiency by 50% and user productivity by 35% through enhanced search, filter, and organization capabilities. Utilized SQLite for local data storage.

Pharmacy Management System – Desktop and Web Application
- **Technologies** – Java, SQL, JSP, Maven, JavaScript and React
  - Designed and implemented RESTful APIs for authentication and role-based access, built interactive React-based UI with real-time filtering and form validation, connected it with serverless REST APIs, and collaborated on frontend state management and faceted search— improving response time by 30%, backend performance by 40% (Java/PostgreSQL), and reducing downtime by 20%.

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY – (CHICAGO, USA)   2024
Masters in Information Technology and Management   GPA: **4.0**/4.0