



Academic Profile

M.Sc. Informatics	2019	Major- Information Technology and Computer Networks	University of Delhi
B.Sc. Electronics	2017	Major- Electronics and Communication	University of Delhi

Work Experience

Total: 06 Years

Incyte(RL), Bengaluru, India

Aug'24 - current

Senior Software Engineer

<https://incyte.com/>

- Designed and developed AI agents for drug discovery applications, leveraging RAG (Retrieval-Augmented Generation) for intelligent document and media processing with WebSocket and WebRTC.
- Built and optimised AI-powered search and retrieval systems using LangGraph, LangChain, Vector Databases and Langsmith and an orchestration framework.
- Developed end-to-end pipelines for document ingestion, indexing, and querying, integrating AWS S3, OpenSearch, and DynamoDB for scalable storage and retrieval.
- Design, implement, and optimise RAG pipelines, including embedding strategies, vector search, and retrieval patterns using Langchain, LangGraph and LangSmith and Vector Databases.
- Worked with AWS and Azure cloud ecosystems, optimising the deployment and performance of AI-driven applications and integration with different GenAI Models like OpenAI, Gemini, Claude, e.tc.

Docquity, Gurugram, India

Aug'22 - May'2024

SDE,
Backend<https://docquity.com/>

- At Docquity, I worked as a Back-end engineer to re-engineer an existing monolithic architecture into a microservices-based architecture. I introduced gRPC for inter-service communication and added caching for fast data retrieval.
- I wrote several services for features like community, webinars, content management, etc., which handle thousands of concurrent users and high-volume, real-time data processing.
- Content Service - This service works as a storehouse for all other services; it manages all types of content like text, audio, video, etc. Tech stack - Springboot(JAVA), Python, MongoDB, Redis, gRPC, Jenkins, Docker, Websocket and Webrtc
- Community Service—This is a feature service where doctors can create a community according to their speciality and actions—join, invite, exit, block. The tech stack is Python(Django), MySQL, and AWS.
- Promo View Strip - A feature Service to show a strip on the app's home page to attract more users to events and thus increase user engagement. Tech stack- Nest.js(Node), Python, PHP, MySQL, AWS.

Zenarate(Naehas), Gurugram, india

June'21 – July'22

Software Engineer,
Full Stack<https://www.zenarate.com/>

- At Zenarate, I worked as a Full Stack Developer to add new features to existing applications.
- I added WCAG compatibility(accessibility) to the application, i.e., the website can be used by visually impaired people with the help of tools like VoiceOver (MAC) and JAWS(Windows). Tech Stack - JavaScript, jQuery, React.js
- Added a scheduled assignment feature to create Stories of AI chat and audio sessions to boost the KPI of financial organisations by 30%. Tech stack - Python, Node.js, JavaScript, MySQL
- Added Spell-check and grammar-check features to the existing AI chatbot. Tech stack - Python, Node.js, JavaScript, MySQL, integration with different GenAI Models like OpenAI

Samarth eGov(IIC UDSC), New Delhi, India

June'19 - May'21

Programmer,
Full stack<https://docs.samarth.ac.in/>

- At Samarth, I worked as a full-stack developer to create web applications that could cater for lakhs of concurrent users during peak hours.
- Recruitment Module- An application that serves pan-India recruitment for universities. Tech stack- PHP, MySQL, JavaScript. Trained small models for internal application using ML frameworks(TensorFlow)
- Examination Module- An application that allows students of Indian universities to appear in online examinations, grading, and evaluation. Tack stack, Nodejs, PHP, JavaScript, Mysql, Python
- Evaluation and Verification Module- An application that allows students and other academic entities to generate documents from various sources and verify them online without any paperwork. Stack- PHP, Python, MySQL, AWS.

Skills

Technical Expertise

- JavaScript(Nodejs,ReactJS), TypeScript(Nest.js), Python(Django, Flask, Streamlit,), php(YII,Slim), Java
- Communication protocols: RESTful, gRPC, WebSockets, MCP, e.tc.
- Databases used - MySQL, MongoDB, PostgreSQL, DynamoDB, OpenSearch, Redis(for caching)
- Cloud Services- AWS(EC2, S3, SQS, SES,lambada, cloudfront, cloudformation, e.tc.),Azure(dev-tools)
- DevOps tools- Git, Jenkins, Docker, K8S, Terraform, CI-CD, LangFlow
- RAG-AI tools and Orchestration -LangChain, LangGraph, Vector-Databases, GenAI (OpenAI, Gemini, Anthropic, etc.), embeddings, vector search, retrieval strategies, and chunking approaches

Soft Skill

- JIRA, Confluence, MS-365, Github, GitLab, Azure DevOps, JetBrains IDEs, VsCode, Windsurf, Cursor, Copilot, e.tc

Certifications

- Network Security Expert 2(Associate), Fortinet
- Machine Learning, Stanford Online
- CompTIA Security+, Cybrary
- Network Security Expert: Fortinet

Academic Awards & Achievements	
Co-Curricular	<ul style="list-style-type: none"> • Author of various research papers(6) published in different journals and conference proceedings
	<ul style="list-style-type: none"> • Awarded with merit-cum-means scholarship - 2018 • Awarded ELITE (Education in Lively Innovative Training Environment) Fellowship at Acharya Narendra Dev College.
	<ul style="list-style-type: none"> • Has been a part of the team responsible for upgrading CAN(campus area network) in UDSC from 1 Gbps to 10 Gbps using a star+ring network configuration, eliminating SPOF(single point of failure), which serves 18,000 endpoints across the university.
Extra-Curricular	<ul style="list-style-type: none"> • Granted cluster innovation project by MoE and established robotics and automation lab