

## PROFESSIONAL SUMMARY

*Results-driven **Software Engineer & AI/ML Practitioner** with 5+ years of experience in building scalable, high-performance applications. Proficient in **Python, Java, JavaScript (ES6+), and SQL**, with expertise in **LLMs, prompt engineering and cloud platforms (AWS, GCP)**. Skilled in **FastAPI, NodeJS, TensorFlow, Pandas, Scikit-learn, and NLP libraries**. Adept at developing **microservices and RESTful APIs**, optimizing **CI/CD pipelines**, and deploying **AI-powered solutions**.*

## SKILLS

|                              |   |
|------------------------------|---|
| <b>Languages</b>             | Python, Java, Javascript(ES6+), Typescript, SQL   |
| <b>Framework/Libraries</b>   | Numpy, Pandas, FastAPI, ReactJS, Redux, Next.js, Node.js, Express.js, RESTful APIs, GraphQL |
| <b>AI/ML &amp; NLP Tools</b> | Prompt Engineering, GANs, RAG, Pytorch, Scikit-learn, NLTK, Hugging Face                    |
| <b>Platforms/Tools</b>       | AWS (EC2, S3, Lambda), GCP(Vertex AI, App Engine), Terraform, Jenkins                       |
| <b>Databases</b>             | PostgreSQL, MongoDB, MySQL, BigQuery, Vector DBs (FAISS)                                    |

## EXPERIENCE

### Full Stack Developer | Northeastern University May 2023 - Sep 2023

- Built responsive web components using **ReactJS** for a bioengineering research portal, improving accessibility compliance.
- Developed **LLM-driven chatbot** for **Natural Language to SQL** query generation, enabling researchers to interact with protein databases.
- Built and deployed **FastAPI-based microservices** for serving AI models on **GCP App Engine** with auto-scaling.

### Software Engineer | Times Internet Apr 2021 - July 2022

- Developed and maintained scalable web applications using **ReactJS** and **Next.js**, enhancing user engagement by 25%.
- Developed and optimized scalable **Spring Boot** based backend app for TOI+ portal contributing 120k+ subscribers in a year.
- Developed **AI-powered personalization** engine for content recommendations, boosting engagement by **30%**.
- Led cross-functional teams to deliver high impact features, improving collaborations and accelerating deployment cycles.

### Software Engineer | Progcap Jan 2019 - Mar 2021

- Built and launched a Loan Originating System from scratch using Java **Spring Boot** and **React JS**, improving loan processing efficiency and user experience.
- Designed microservices architecture and optimized backend APIs integration with **MongoDB**, enhancing system scalability and performance.
- Automated deployments and infrastructure provisioning using **AWS** and **Terraform**, reducing deployment time and minimizing manual errors.
- Conducted code reviews and mentored junior developers, fostering a collaborative environment.

### Software Engineer | Livemedia Aug 2017 - May 2018

- Developed two **full-stack microservices-based** web applications for the insurance domain, enhancing UI and operational efficiency.
- Managed deployment pipelines using **GitLab** and **Terraform**, ensuring seamless delivery of new features.

## PROJECTS

### AI-Powered Blog Generator

**Technologies Used:** LLM, RAG, AWS Bedrock

- Developed an **AI-driven** content generator using **Llama 3.1 8B** and **AWS Bedrock**, automating blog creation, editing, and publishing.
- Implemented **real-time fine-tuning with RAG** on dynamic datasets, enhancing content relevance and personalization.

### Conversational AI Chatbot for Customer Support

**Technologies Used:** GPT-4o, LangChain, Bedrock

- Designed and deployed an enterprise-grade AI chatbot using **GPT-4o, LangChain, and AWS Bedrock**, optimizing customer interactions.
- Implemented advanced **NLP techniques** such as intent recognition and dynamic response generation, reducing query resolution time by 40%.
- Integrated the chatbot with enterprise support systems, improving customer satisfaction scores and automation efficiency.

### CollabHub - Team Collaboration Platform

**Technologies Used:** React.js, Node.js, MongoDB, GraphQL, WebRTC, Socket.IO

- Developed a team collaboration platform with real-time chat, task management, and video conferencing using **WebRTC** and **Socket.IO** for seamless data sync.
- Built a responsive UI with **React.js**, Material-UI, and **Apollo Client**, backed by a scalable **Node.js, MongoDB, and GraphQL** backend.

## EDUCATION

**Master of Science | Information Systems** | Northeastern University

**Sep 2022 - Apr 2024**

**Bachelor of Technology | Computer Science** | Kurukshetra University

**Aug 2012 - Jun 2016**