Ansh Singh

Goa,India • anshsinghh365@gmail.com • +91 8459236308 • linkedin.com/in/as365
github.com/KaroK365 • github.com/KaroK365

Aspiring Software Engineer with of experience in software development and API design. Proficient in Java.

EDUCATION

Bachelor of Technology (B.Tech)   **Oct 2022 - Present**
Vellore Institute of Technology   **GPA:** Cumulative GPA : 8.70
  Relevant Coursework : Data Structure, Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object Oriented Programming (OOPs/OOP), Artificial Intelligence, Machine Learning

SKILLS

Languages: Java, SQL, Python, Javascript, C++

Framework: SpringBoot, Gin, Hibernate, React.js, Django

Databases: PostgreSql, MongoDB, MySQL, H2

DevOps & Tools: Linux, AWS (EC2, S3, Lambda), Docker, Git, Postman, Maven

Other Skills: RESTful API Development, Unit Testing (JUnit), System Design, Microservices

WORK EXPERIENCE

Software Developer Intern   **Feb 2025 - Jun 2025**
Ceeras IT   **India**
- Collaborated with the backend team to optimize API calls, leading to a 20% improvement in server response time and enhanced overall application performance in a fast-paced environment.
- Contributed to the development of a user authentication system, resulting in a 45% decrease in security vulnerabilities.
- Facilitated sprint planning and retrospectives, achieving a 20% increase in team velocity and ensuring on-time delivery of features.

Software Intern   **Jan 2025 - Mar 2025**
CityLaila   **India**
- Published and managed 10+ company blogs on Wordpress, optimizing metadata and SEO to increase website traffic by 15%.
- Troubleshoot website issues and integrated SEO plugins and analytics tools, improving site performance and reducing page load time by 25%.

PROJECTS

Smart Email Assistant ⧉
- Developed a full-stack email automation tool using Spring Boot and Spring AI, integrating Google's Gemini API to generate context-aware replies.
- Built RESTful APIs for AI response processing, leveraging Spring Boot's dependency injection and JPA to reduce latency by 40% compared to baseline models.
- Created Chrome browser extension using Manifest V3, enabling 1-click AI reply integration with Gmail and cutting email response time.
- Designed React frontend with Material-UI components, implementing real-time previews of AI-generated replies to enhance user experience and reduce manual editing by 60%.

Multi-PDF Chatbot ⧉
- Developed an interactive chatbot capable of answering questions from multiple uploaded PDF documents using Google's Gemini LLM via LangChain.
- Implemented text chunking with RecursiveCharacterTextSplitter and document embeddings using GoogleGenerativeAIEmbeddings.
- Built a custom conversational RAG (Retrieval-Augmented Generation) pipeline using FAISS for semantic search and load_qa_chain for contextual answers.
- Enabled efficient and intuitive access to complex document information, reducing manual search time and improving document comprehension for users by 60%.

UAV Mission Planning System | Go, Gin, React ⧉
- Engineered mission control APIs using Go/Gin with GORM optimization, achieving 98% endpoint reliability and 350ms average response time for complex mission payloads
- Implemented Haversine formula for precise geospatial calculations based on latitude and longitude coordinates.
- Integrated Docker for containerized deployment, ensuring easy scalability and portability.
- Automated mission analytics generating fuel/time estimates through REST API, eliminating 6hrs/week of manual spreadsheet calculations for operations team.

CERTIFICATIONS

The Bits and Bytes of Computer Networking by **Coursera | Google**

Cloud Computing by **NPTEL**

Supervised Machine Learning by **DeepLearning.AI**

Wells Fargo Software Engineering Job Simulation by **Forage**

AWARDS

Elite + Gold by **NPTEL**

Top 1% in Cloud Computing competing against 10000+ participants.

Top 5 in College Ranking by **Coding Studio**

150+ DSA problems solved on LeetCode, Coding Studio and GeekForGeeks.

Participation

Participated in 5+ hackathons and coding competitions.

Completion

Completed 100 Days of Code | Contributed to 5+ projects in HacktoberFest.

LANGUAGES

Hindi, Native proficiency • English, Professional working proficiency