

Ansh Singh

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github.com/KaroK365

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

EDUCATION

Bachelor of Technology (B.Tech)

Oct 2022 - Present

Vellore Institute of Technology

GPA: Cumulative GPA : 8.76

Relevant Coursework : Data Structure, Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object Oriented Programming (OOPs/OOP)

SKILLS

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

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 - Apr 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 | Spring Boot, Spring AI, React, Google Gemini API [↗](#)

- **Developed** a full-stack email automation tool using Spring Boot and Spring AI, integrating Google's Gemini API to **generate context-aware replies** with 95% semantic accuracy.
- **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 by 50%**.
- **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%.

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.

Plant Disease Detection [↗](#)

- Trained multiple Vision Transformer models to classify plant diseases using a custom dataset, achieving more than 85% accuracy.
- Collaborated with peers to document the process and present findings, contributing to a research paper.

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