

# Aryansh Singh

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## SKILLS

- **Languages:** Python, JavaScript, HTML and CSS
- **Frameworks:** Bootstrap, NodeJS, React, FastAPI
- **Tools/Platforms:** AWS, Docker, GitHub, Linux, Kubernetes, Teraform, MongoDB, PostgreSQL
- **Soft Skills:** Problem-Solving, Team Player, Project Management, Adaptability, Leadership

## TRAINING

<b>Cipher Schools (Edtech Company)</b>	Jun' 24 – Jul' 24
Full-Stack Web Development (MERN Stack)	
<ul style="list-style-type: none"><li>• Built and deployed full-stack web applications using MongoDB, Express.js, React.js, and Node.js, incorporating <b>RESTful APIs</b> and <b>JWT</b> authentication.</li><li>• Designed and developed responsive <b>UIs</b> with <b>React.js</b> and integrated <b>MongoDB</b> for efficient data management.</li><li>• Gained experience in version control with <b>Git</b>, and deployment using platforms like <b>Heroku</b>, <b>Render</b> and <b>Netlify</b>.</li></ul>	

## PROJECTS

<b>Self-Healing AI Agent with CI/CD Pipeline</b>	Jul' 25
<ul style="list-style-type: none"><li>• Built a <b>modular LangChain-based agent</b> with FastAPI that supports <b>prompt retries</b>, <b>fallback logic</b>, and <b>real-time memory injection</b> for auto-healing failed outputs.</li><li>• Designed a <b>feedback-driven learning loop</b> using vector memory (<b>FAISS</b>) to enhance responses based on user corrections and edge case detection.</li><li>• Implemented a <b>self-healing CI/CD pipeline</b> using <b>GitHub Actions</b> with <b>test retries</b>, <b>failure rollback</b>, and <b>zero-downtime deployment</b> on Render.</li></ul> <b>Tech:</b> FastAPI, LangChain, Gemini 1.5 Flash, FAISS, GitHub Actions, Docker, MongoDB, Render	
<b>CodeWhisper: AI-Powered Coding Assistant</b>	Jun' 25
<ul style="list-style-type: none"><li>• Developed “CodeWhisper,” a full-stack AI-powered coding assistant with a React.js frontend and Flask backend, integrating OpenAI GPT-4 for real-time code generation, explanation, and debugging.</li><li>• Implemented LangChain agents for dynamic, multi-turn reasoning and used FAISS vector search to enable Retrieval-Augmented Generation (RAG) with intelligent context retrieval.</li><li>• Utilized OpenAI Function Calling to extract structured metadata such as topic and difficulty, combining advanced LLM workflows with robust software engineering practices.</li></ul> <b>Tech:</b> React.js, Flask, LangChain, OpenAI GPT-4, FAISS, HTML/CSS, Git, REST API	
<b>Natural Language Cross-Platform Data Query RAG Agent</b>	Jun' 25
<ul style="list-style-type: none"><li>• Built a full-stack AI-powered data query system using <b>FastAPI</b> backend and <b>React.js</b> frontend to process natural language questions and retrieve structured insights from <b>PostgreSQL</b>, <b>MongoDB</b>, and document sources.</li><li>• Integrated <b>LangChain</b>, <b>Ollama 3</b>, and vector databases (<b>FAISS</b>) to enable <b>Retrieval-Augmented Generation (RAG)</b> and intelligent multi-turn reasoning.</li><li>• Implemented modular microservices with support for <b>RESTful APIs</b>, dynamic chart/table rendering, and real-time AI-powered responses for business data queries.</li></ul> <b>Tech:</b> FastAPI, Python, LangChain, Ollama 3, FAISS, PostgreSQL, MongoDB, React.js, REST API, Git	

## CERTIFICATES

• Google Project Management: Professional Certificate	Jul' 25
• AWS Solutions Architecture	Sept' 25
• Cloud Computing -NPTEL	Nov' 24

## ACHIEVEMENTS

• <b>Smart India Hackathon:</b> Developed an education chatbot to provide users with detailed information about colleges in Rajasthan.	Sept' 24
• <b>Community Development Project:</b> Carried out the project for helping voiceless animals under Zariyaan For Voiceless Welfare Society	Jul' 23

## EDUCATION

<b>Lovely Professional University</b> • Bachelor of Technology - Computer Science and Engineering; <b>CGPA: 7.3</b>	Jalandhar, Punjab Aug '22 - Present
<b>Sri Guru Harkrishan Public School</b> • Intermediate; <b>Percentage: 80%</b>	Kapurthala, Punjab Apr '20 - Mar '22
<b>Sri Guru Harkrishan Public School</b> • Matriculation; <b>Percentage: 80%</b>	Kapurthala, Punjab Apr '18 - Mar '20