

Ayush Shukla

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SKILLS

- Languages:** Java, JavaScript, Python
- Frameworks:** React, NextJS, NodeJS, Spring Boot, FastApi
- Tools/Platforms:** Linux, Git, Docker, Nginx, CI/CD, AWS (EC2, S3, CloudFront/CDN)
- Databases/ORM:** Postgres, MongoDB, Prisma
- CS Fundamentals:** DSA, DBMS, OOP, Operating System, Computer Networks
- AI/ML:** Gen-AI, RAG, LLMs
- Soft Skills:** Problem-Solving, Adaptability, Team Collaboration, Quick Learner

PROJECTS

FlashByte High Performance In-Memory Store Github	Jan' 26 - Present
Tech Stack: Java, Spring Boot, Spring Web, ConcurrentHashMap, Maven	
<ul style="list-style-type: none">Built a Redis-inspired in-memory key-value store with thread-safe, constant-time GET/SET operations.Implemented TTL-based key expiration using lazy eviction and Redis-compatible TTL semantics.Designed a modular storage engine using immutable entries and concurrent data structures.Architected the system for future extensibility, enabling persistence and background eviction.Established a modular architecture with strict separation of API, command, and storage layers, improving system extensibility and long-term maintainability.	
LLM Based Query Retrieval System RAG Automation Pipeline Github	
Tech Stack: Python, FastApi, OpenAI Embeddings, OCR, Google Gemini Pro, ChromaDB	Aug' 25
<ul style="list-style-type: none">Built a RAG-based query retrieval system to answer questions over long unstructured documents.Implemented vector-based document storage and retrieval, optimizing token usage of LLM.Designed an agentic workflow to execute actions involving external APIs and web data sources.Developed a FastAPI-based inference API with document caching to reduce latency.	
S3Cloud Domain Subdomain Distribution Platform Github	Oct' 25
Tech Stack: NextJS, CloudFlare, DNS, Postgres, Captcha	
<ul style="list-style-type: none">Architected and implemented a subdomain provisioning service with automated DNS orchestration.Integrated custom CAPTCHA system for protecting service endpoints against automated misuse.Leveraged serverless architecture and efficient API strategy for domain lifecycle management.Delivered real-time operations and front-end interactivity using modern JavaScript frameworks.	

TRAINING

Full-Stack Web Development (MERN) – Cipher Schools	Jun' 25 - Jul' 25
<ul style="list-style-type: none">Mastered the MERN stack to build scalable, data-driven web applications.Developed RESTful APIs, JWT-based authentication, Middlewares, Indexing and Security	

CERTIFICATES & LEARNING

<ul style="list-style-type: none">AWS Training & Certification: Amazon EC2 BasicsCloud Computing NPTEL Online Certification (IIT Kharagpur)	Sep' 25
	Jan' 26 - Present

Achievements

<ul style="list-style-type: none">Solved 300+ coding problems across Leetcode, GFG & CodeForces90th out of 10,000 teams in Bajaj HackRx 6.0 Agentic AI Hackathon6 Stars in Problem Solving on HackerRank	Aug' 25
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EDUCATION

Lovely Professional University	Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.6	Aug' 23 - Present
Radha Madhav Public School	Bareilly, Uttar Pradesh
Intermediate; Percentage: 75	Apr' 21 - Jun' 22
St. Mary's Convent School	Bareilly, Uttar Pradesh
Matriculation; Percentage: 93	Apr' 19 - Jun' 20