

Akash Kanaujiya

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Professional Summary

Product-focused Software Engineer specializing in scalable backend and AI-driven systems, with proven impact in reducing operational costs, accelerating hiring workflows, and enhancing user experience. Experienced in architecting high-performance distributed systems on AWS and delivering production-grade applications at scale.

Skills

Languages: Python, Java, C/C++, JavaScript, TypeScript, SQL, HTML, CSS

Technologies & Frameworks: FastAPI, Django, Spring Boot, PostgreSQL, MongoDB, React, Next.js, Tailwind CSS

AI Engineering: LangChain, LangGraph, Vector & Graph Databases, RAG, Prompt & Context Engineering, Agent Memory

Developer Tools: Git, Docker, AWS (VPC, Lambda, SQS, ECS, S3, Redis Pub/Sub), Pytest, JMeter, VS Code

Core Fundamentals: DSA, OOP, Operating Systems (OS), Database Management Systems (DBMS), System Design

Work Experience

HashedIn by Deloitte | Software Engineer I

Jan 2025 – Present | Gurugram

- **Spearheaded** the end-to-end backend architecture of a real-time **Interview Co-pilot** platform, driving a **75% reduction in interviewer effort and improving hiring decision quality by 50% through bias-aware evaluation**; enabled scale via AWS-based **microservices** handling **50+ concurrent real-time sessions**.
- Orchestrated the development of an **AI-powered autonomous Screening Agent**, **reducing manual candidate screening workload by 80%** and accelerating time-to-hire, directly impacting recruitment throughput.
- Designed a **horizontally scalable, event-driven microservices ecosystem leveraging Redis Pub/Sub and Streams**, improving **real-time communication latency by 40%** and supporting **3X growth in WebSocket connections** without performance degradation.
- Transformed internal HR operations by delivering a **RAG-driven employee support chatbot**, increasing query resolution **accuracy by 48%** and **reducing support ticket volume by 90%**, leading to **20 hours/week of operational savings**.

HashedIn by Deloitte | Software Engineer Intern

Oct 2024 – Jan 2025 | Bangalore

- Accelerated development velocity by contributing across **Java, Python, C#, and TypeScript** codebases, enabling faster feature delivery within cross-functional teams.
- Engineered an **automated codebase intelligence platform** capable of parsing **1 million+ lines** of multi-language code, reducing **documentation effort by 90%** and accelerating onboarding time for new developers by 80%.
- Built robust **full-stack applications** and **RESTful APIs** using Spring Boot (Java), FastAPI (Python), and .NET (C#), deepening expertise in strict type-safety standards and object-oriented backend architectures.

Project Work

Realtime AI Voice Chat | Python Asyncio, FastAPI, WebSockets, LangChain, Silero VAD

[Source Code](#) | [Demo Video](#)

- Engineered an **open-source, real-time AI voice conversation system** that seamlessly integrates with existing **chatbot agents**, transforming them into highly engaging voice interfaces.
- Optimized full-duplex audio streaming pipelines to achieve **sub-second latency (1s)**, improving real-time responsiveness and reducing user drop-offs.
- Architected a modular, event-driven AI orchestration layer supporting **multi-provider STT, TTS, and LLM** integrations, reducing integration time for new providers by 80%.

CodeRunr (Remote Code Execution Engine) | FastAPI, Docker, PostgreSQL, Celery, SQLAlchemy, AWS

[Source Code](#)

- Architected an open-source, secure, scalable remote execution engine **capable of scaling to millions of submissions/day**, forming the backbone for a competitive programming platform with **99.9% system uptime**.
- Enforced enterprise-grade **sandboxing and isolation using Linux namespaces and cgroups**, **mitigating critical security risks in untrusted code execution** in untrusted code execution.
- Engineered a distributed execution pipeline leveraging **FastAPI, AWS Lambda, SQS, EC2, Aurora Postgres, etc.**, improving job throughput and achieving **5-second execution time**.

Education

Ajay Kumar Garg Engineering College, Ghaziabad, U.P

B.Tech in Computer Science (Relevant Coursework: DSA, OS, DBMS, ML, System Design)

Jun 2024

CGPA: 7.9/10

Achievements

- Top Impactor Award at HashedIn by Deloitte for architecting and delivering a scalable AI system.
- Leetcode: Secured a global top 6% rank with a 1831 rating, mastering 700+ problems | [Profile](#)
- Achieved Global rank 350 out of 42K participants in Leetcode Biweekly contest 492
- Secured 513th rank globally in TCS CodeVita (out of 444K+ participants across 94 countries).
- Certifications: Fullstack Development with Django (Meta via Coursera), JavaScript Security Specialization.