

HARDIK KUMAR SINGH

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EDUCATION

Motilal Nehru National Institute of Technology Allahabad

B.Tech in Computer Science and Engineering

CPI: 8.27

Dec 2021 - May 2025

G.N. National Public School

Central Board of Secondary Education (XII)

Percentage: 95.4%

Apr 2021

EXPERIENCE

Grid Dynamics

Junior Software Engineer

Hyderabad, India

Aug 2025 – Present

- Developed backend systems for an **AI-powered Talent Acquisition platform**, automating candidate screening workflows and reducing manual recruiter effort by **90%**.
- Built **asynchronous and scalable APIs** using **FastAPI**, enabling advanced filtering, pagination, and real-time data delivery, improving recruiter workflow efficiency by **35%**.
- Integrated AI models using **Google Vertex AI** and **OpenAI GPT-4** to perform intelligent **CV-to-Job Description matching** and candidate ranking, increasing match accuracy by **35%**.
- Executed an **autonomous scoring and ranking engine** that evaluates candidates across all relevant hiring tickets in a single pass, achieving a **91% reduction in screening time**.
- Replaced manual profile-based evaluation with **holistic CV-to-Job Description semantic matching** using AI scoring, reducing recruiter bias and improving shortlisting consistency by **30%**.
- Containerized and deployed the application using **Docker** on **Google Cloud Run**, enabling scalable and cost-efficient deployments and reducing operational overhead by **25%**.
- Designed cloud-native persistence using **Google Cloud SQL (PostgreSQL)** with optimized **JSONB-based schemas**, improving query performance and data flexibility by **30%**.

Software Engineer Intern

Jan 2025 – Jul 2025

- Led the backend of an **LLM-Powered Learning Assistant**, converting **90%** of diverse content (PDFs, code, docs, GitHub repositories, and web links) into interactive learning materials.
- Engineered **35+ REST APIs** using **FastAPI**, integrating **PostgreSQL**, **ChromaDB**, and **Redis** to support hybrid structured and semantic data processing.
- Applied **secure code execution infrastructure** using **Firecracker microVMs** on **Amazon EC2**, isolating untrusted user code and reducing execution-level security risks by **80%**.
- Collaborated with Data Science and Frontend teams to integrate **chat**, **Q&A generation**, and **automated code evaluation**, increasing learner engagement by **30%**.
- Containerized backend services with **Docker**, resolving over **60% of CI/CD pipeline issues** and improving development and staging environment consistency.

PROJECTS

OptiVision | TensorFlow, OpenCV, Jetson Nano, Python ↗

Jan 2024 - May 2024

- Developed real-time object detection with **Centernet ResNet-101**, achieving **32.4 mAP** at **34ms** inference.
- Processed **5+ RTSP live streams** for **multi-object tracking** with **85%+ accuracy**.
- Generated **log files** containing **10k+ object detections** for analysis and insights.
- Implemented a **chatbot** leveraging detection logs and **TF-IDF with cosine similarity**, improving query response efficiency.

TECHNICAL SKILLS

Programming Languages: Java, C++, SQL

Frameworks & Development: Spring Boot, FastAPI, ReactJS

Architectural Patterns: Microservices Architecture

Databases: PostgreSQL, MySQL, MongoDB

Cloud & AI Technologies: Google Cloud Platform (Cloud Run, Cloud SQL), Vertex AI, Amazon Web Services (EC2)

Developer Tools & Version Control: Docker, Kubernetes, Git, GitHub, GitLab, IntelliJ IDEA, Visual Studio Code

Build & Testing Tools: Maven, JUnit, Mockito

Methodologies: Agile, Scrum

CERTIFICATIONS

- AWS Certified Cloud Practitioner** ↗