

# SHUBHAM PANDEY

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🌐 [Website](#) | [LinkedIn](#) | [CodeForces \(Specialist\)](#) | [GitHub](#) | [LeetCode \(Top 14%\)](#)

## SKILLS SUMMARY

- **Languages:** Python (Expert), Go, JavaScript, Java, TypeScript, SQL
- **Backend & Infra:** FastAPI, Flask, Django, Node.js, Docker, Kubernetes, GCP, PostgreSQL, MongoDB
- **ML & AI:** RAG, LangChain, LangGraph, NLTK, FAISS, Ollama, Vector Databases (Weaviate), n8n
- **Tools & Dev:** Git, GitLab CI/CD, OAuth 2.0, Jira, Selenium, System Design, Microservices

## EXPERIENCE

- **Ciena Software Engineer 1B** [March 2025] – Present
  - **Production AI Architect:** Architected a production-grade RAG pipeline (FastAPI, ChromaDB) to automate the conversion of technical requirements into code, reducing manual boilerplate development by **30%**.
  - **Scalable Microservices:** Designed and containerized Microservice Resource Adapters (RAs); optimized for **10,000+ resource types** using K8s and Pytest for high-availability validation.
  - **Topology Modeling:** Engineered a Logical Inventory model (FREs) to abstract complex physical network layers, enabling autonomous zero-touch provisioning and **reducing service activation latency by 25%**.
- **Mercor Software Engineer (Contractor)** [April 2025] – [Oct 2025]
  - **Standardized Infrastructure:** Automated the containerization and environment parity of **50+ high-traffic Python repositories** using Docker, facilitating high-fidelity data acquisition and reproducibility for a **leading AI research lab**.
  - **Evaluation Engineering:** Architected **atomic rubrics** for complex System Design problems, establishing a rigorous benchmarking framework used to evaluate the architectural reasoning of AI models.
  - **Technical Leadership:** Directed rigorous peer code reviews focused on **algorithmic efficiency and edge-case detection**, maintaining production-grade code quality across distributed codebases.
- **Hughes Systique (HUGHES group) Associate Engineer** [July 2023] – [Feb 2025]
  - **Distributed Pipelines:** Engineered a **distributed document processing system** extracting 10k+ records monthly; achieved an **8x speedup** (4hrs to 30mins) via multi-threaded Python logic.
  - **Cloud Architecture:** Architected a serverless data pipeline using **GCP Cloud Run and BigQuery**, processing daily fault data from 100+ vendors to enable real-time operational analytics.
  - **Deep Technical Ownership:** Optimized search retrieval by **overriding Langchain entity classes** and implementing a custom Reranker model, improving embedding accuracy by **80%**.
  - **Security & Infra:** Implemented OKTA SSO (OAuth 2.0) for enterprise DMS, resulting in **zero security incidents** over 8 months.

## PROJECTS

- **TimeScope** [🔗](#) (macOS focus tracking and productivity logging): [Github](#) | [Demo](#)
  - **Engineering:** Developed a macOS agent using Tkinter and AppKit for **low-latency (<1s) focus tracking**; built a FastAPI backend with Role-Based Access Control(RBAC) to manage distributed dashboard data.
- **SheetChat** [🔗](#) (GenAI analytics engine converting NL to SQL): [Github](#) | [Demo](#)
  - **Analytics:** Built a natural language-to-SQL engine using Gemini LLM; optimized for **large-scale datasets (10k+ rows)** with instant visualization, reducing query time by **90%**.

## EDUCATION

- **Jawaharlal Nehru University (QS World Rank 580)** New Delhi, India  
*Master of Computer Applications (MCA); GPA: 8.42* 2021 – 2023
- **University of Delhi** New Delhi, India  
*B.Sc. (Hons) Computer Science; GPA: 8.47* 2018 – 2021

## AWARDS & ACHIEVEMENTS

- **Competitive Programming:** Specialist (Max Rating 1400+) on [CodeForces](#); Top 14% on [LeetCode](#) (1600+ Rating).
- **Professional Recognition:** Received 2 Instant Awards and a Management LOR for "exceptional technical contribution" (2024).
- **Certifications:** [Go](#), [Docker](#), and [Machine Learning](#) Specializations.

## VOLUNTEER & LEADERSHIP

- **Volunteer at Kritansh: The School of Hope** New Delhi, India  
*Lead educator for children; managed donation drives and workshops.* 2023 – Present
- **Placement Coordinator at JNU** New Delhi, India  
*Liaised with HR departments and managed recruitment records.* 2022