

SHUBHAM PANDEY

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

SKILLS SUMMARY

- **Languages:** Python (Expert), Java, JavaScript, TypeScript, WebSockets, SQL
- **Backend & Infra:** FastAPI, Flask, Django, Kafka, 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
 - **Scalable Microservices:** Engineered a multi-pod Resource Adapter (RA) using Kubernetes StatefulSets and Helm; **scaled to 3+ instances** to parallelize LAG discovery and polling, reducing processing **latency by 30%** while ensuring high-availability inventory synchronization.
 - **Websocket Cache Management:** Architected an intelligent WebSocket cache for real-time inventory sync; managed asynchronous Southbound events to resolve complex resource dependencies with sub-second data accuracy and **100% state consistency**.
 - **Production AI Architect:** Designed a production-grade RAG pipeline (FastAPI, ChromaDB) to automate the conversion of technical requirements into code, reducing manual boilerplate development by **30%**.
 - **Topology Modeling:** Orchestrated Logical Inventory modelling (FREs) to map Southbound data into Northbound formats; utilized Kafka topics for real-time discovery upserts to enhance client observability and control, reducing **service activation latency by 25%** across distributed network pods.
- **Mercor Software Engineer (Contractor)** [April 2025] – [Oct 2025]
 - **Standardized Infrastructure:** Automated the containerization of **50+ high-traffic Python repositories** by resolving complex dependency conflicts and pinning exact package versions; integrated unit testing within Docker builds to ensure **100% environment parity** and reproducible data acquisition a leading AI lab.
 - **Evaluation Engineering:** Fabricated **atomic rubrics** for complex System Design problems, establishing a rigorous benchmarking framework used to evaluate the architectural reasoning of AI models.
- **Hughes Systique (HUGHES group) Associate Engineer** [July 2023] – [Feb 2025]
 - **Distributed Pipelines:** Developed a Power Automate pipeline utilizing jQuery DOM manipulation to process 10k+ monthly records into BigQuery, achieving an 8x speedup in ingestion time (4hrs to 30mins).
 - **Cloud Architecture:** Orchestrated an end-to-end pipeline using Selenium for dynamic recursive crawling and ingestion of **30+ GB of multi-format data** (PDF, CSV, HTML) into Weaviate, featuring semantic chunking indexed directly to source URLs.
 - **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