SHUBHAM PANDEY

Delhi, India | +91-7850896012 | shubham.pandey.workconnect@gmail.com

🌐 [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*