

SHUBHAM PANDEY

Uttam nagar , Delhi

[Website](#) [+91-7850896012](#) [shubham.pandey.workconnect@gmail.com](#) [Linkedin](#) [Github](#) [LeetCode](#)

SKILLS SUMMARY

- **Languages:** Python, Go, JavaScript, JAVA, TypeScript, SQL, Bash
- **Frameworks:** Flask, FastAPI, Django, NLTK, React, NextJS, NodeJS, OAuth2.0
- **Tools:** Selenium, Docker, GIT, Gitlab, PostgreSQL, MySQL, MongoDB, FAISS, Jira
- **Platforms:** GCP, Linux, Web, Microsoft Power Platform
- **AI Tools:** LangChain, n8n, LangGraph, Ollama
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking

EXPERIENCE

- **Ciena Software Engineer 1B** March 2025 - Present
 - **RA Development in Python:** Architected an end-to-end Resource Adapter integrating CLI-based device communication with Ciena BluePlanet Orchestrate, streamlining resource provisioning through scalable OOP design. Accelerated development by **30%** using AI-assisted tools while maintaining comprehensive **unit test coverage**.
 - **Logical Inventory Modelling:** Implemented logical inventory with FRES to map physical and logical TPEs, extending orchestration capabilities for complex network topology management through precise modelling and **OOP design**.
 - **Cache Clearing Implementation:** Implemented Cache clearing mechanism for Full reSync of Resources in the RA
- **Hughes Systique (HUGHES group) Associate Engineer** July 2023 - Present
 - **ML Document Pipeline:** Engineered automated processing system using Power Automate and Python, extracting **10,000+** monthly vendor documents with **95%** accuracy, reducing processing time from **4 hours to 30 minutes**
 - **Data Architecture Design:** Architected serverless pipeline using GCP Cloud Run and BigQuery, processing 100+ vendors' records and fault data daily, enabling real-time analytics
 - **SSO Access Control:** Implemented OKTA SSO authentication using OAuth 2.0 for DMS, securing vendor document access and processing for external partners with zero security incidents
 - **AI Assistant:** Developed full-stack AI assistant using NextJS and FastAPI, driving **50%+ adoption across 1000+ employees** with a data-driven dashboard for usage analytics and continuous feature deployment
 - **Backend Infrastructure:** Architected high-performance FastAPI backend with robust exception handling, reducing response time by 50%, utilizing MySQL and Weaviate, and containerizing with Docker for scalable deployment.
 - **Langchain Framework:** Engineered custom functionality by **overriding framework** entity classes, implementing an advanced Reranker Model for document embeddings that significantly enhanced **search accuracy by 80%**.
 - **Testing & Deployment:** Prepared comprehensive test strategy for LLM-powered chatbot, leveraging GPT-4 to **automate 80% of manual testing**

PROJECTS

- **TimeScope** (Time Tracking, System Monitoring, Desktop App)(2025): [Github](#) | [Demo](#)
 - **Overview:** TimeScope is a comprehensive time and system tracking application that monitors user activity by tracking open applications, browser usage, and website visits along with time spent on each.
 - **Dashboards:** Features dual dashboards—one for users to log into projects and track time, and another for administrators to manage projects, assign or remove employees, and monitor team productivity.
 - **Tech:** FastAPI, tkinter, AppKit, SQLAlchemy, SQLite, OAuth2.0, pytest
- **SheetChat** (NLP, Prompt Engineering , LLM , Web Development)(2024): [Github](#) | [Demo](#)
 - **Natural Language Analytics:** Engineered a Gemini-powered application enabling natural language interaction with Excel data, streamlining complex operations and data visualization tasks increasing accuracy by over **50%**
 - **Features:** Leveraged LLM to convert natural language into SQL queries, process data, and generate insights, boosting analysis efficiency; deployed using Docker on GCP App Engine.
 - **Tech:** Python, TypeScript, Streamlit, Docker, NodeJS, MySQL, Pandas, Matplotlib, GCP
- **ChatMood** (NLP, Sentiment Analysis, Statistics)(2023): [Github](#)
 - **Chat Analysis Engine:** Built Python-based WhatsApp analyzer processing **10K+ chat messages** at a time, implementing custom NLTK-powered sentiment detection for **Hinglish text with 85% accuracy**
 - **Visualisation:** Created an Interactive analytics dashboard with Streamlit to visualize chat metrics, user sentiment patterns, and engagement trends from group and individual chats.
 - **Tech:** Python, Streamlit, NLTK, Docker

EDUCATION

- **Jawaharlal Nehru University (QS World Rank 580 (2025))** New Delhi, India
 - *Master of Computer Application; GPA: 8.42* July 2021 - June 2023
- **University of Delhi** New Delhi, India
 - *Bachelors (Honors) Computer Science; GPA: 8.47* July 2018 - June 2021
 - *Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

AWARDS AND ACHIEVEMENTS

- Ranked in top 16% on LeetCode (**Contest Rating: 1600+**)
- Received 2 Instant Awards and a Letter of Recommendation from Project Manager (2024)
- Best Presentation Award at Tech Day (2024)
- Course Certificates : [Golang](#) | [Docker](#) | [Machine Learning](#)

VOLUNTEER EXPERIENCE

- **Volunteer at Kritansh: The School of Hope** New Delhi, India
 - *Teach underprivileged children, participate in donation drives, and lead awareness workshops.* April 2023 - Present
- **Placement Coordinator at JNU** JNU, New Delhi
 - *Coordinated with HR, facilitated student interviews, and managed placement records.* April 2022 - December 2022