# SHUBHAM PANDEY

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## 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
  - **Development Acceleration**: Increased team development velocity by **30%** by architecting a RAG tool(FastAPI, ChromaDB, Streamlit, Jinja) that automates the translation of technical requirement document into compliant Resource Adapter code.
  - **Logical Inventory Modelling**: Designed a Microservice RA for CLI-based southbound devices, deployed on Docker/K8s with Pytest validation, streamlining discovery and provisioning for **10,000 resource types**.
  - **Complex Topology Modeling**: Engineered a Logical Inventory model using FREs to map Physical and Logical TPEs, enabling zero-touch provisioning for complex topologies and **reducing service activation time by 25%**.
- **Hughes Systique (HUGHES group)** *Associate Engineer*                                                                    July 2023 - Feb 2025
  - **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**: Developed a macOS Desktop Agent using Tkinter and AppKit that captures active window/browser focus with **<1s latency**, ensuring precise productivity logging.
  - **Dashboards**: Architected a FastAPI backend with SQLite and OAuth2.0, implementing Role-Based Access Control (RBAC) to securely manage dual dashboards for admins and employees.
  - **Tech**: FastAPI, tkinter, AppKit, SQLAlchemy, SQLite, OAuth2.0, pytest
- **SheetChat** (NLP, Prompt Engineering , LLM , Web Development)(2024): **Github** | **Demo**
  - **Natural Language Analytics**: Engineered a GenAI analytics engine using Gemini and Pandas that converts natural language to SQL, reducing complex Excel data **query time by around 90**%
  - **Features**: Deployed a scalable containerized application on GCP App Engine using Docker, enabling instant data visualization (via Matplotlib) for datasets exceeding **10,000+ rows**.
  - **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*