

# Pujan Thing

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## Summary

Python-focused Software Engineer with 2+ years of experience building full-stack web applications and APIs using Django, FastAPI, and React. Recently expanded into machine learning with hands-on projects using TensorFlow, PyTorch, and real-world datasets. Adept at building scalable backends, deploying ML services, and continuously learning. Actively seeking backend or ML-focused roles to return to tech and grow within the Python ecosystem.

## Skills

- Python | JavaScript | TypeScript | MySQL | PostgreSQL | Firebase | React | NextJS | Redux | NoSQL | Git | Numpy | Pandas
- Django | FastAPI | REST APIs | GraphQL | CI/CD | Jest | PyTest | Unit Testing | DigitalOcean | OOP | Web Development | TensorFlow | Pytorch | Docker
- Microservices | Frontend | Backend | Full-Stack | English | Nepalese

## Experience

### Self-Directed Study & Development

11/2022 - Current

- After a recent career pause I focused on deepening my expertise in data science and machine learning
- Create machine learning models using Tensorflow, PyTorch connecting using REST APIs from FASTAPI server.
- Learning theoretical physics as a hobby and visualizing the theories in Jupyter Notebook.

### Software Engineer

Cyber Inquest Pvt Ltd

*Kirtipur, Nepal*

01/2021 - 10/2022

- Led the design and development of an internal software system for a B2B company, automating order management and monitoring of store stocks using the latest technologies of **Python, MySQL, JavaScript, Flutter**.
- Designed and implemented scalable APIs and background workers using **Django REST** for controlling user functions, and seamless integration with frontend..
- Build internal tools to Streamline data collection from PDFs; automating data entry and reducing task completion by 30% and freeing up to 15 hours for priority projects.
- Mentored and provided guidance to 3 interns on Django and practices within the organization.

## Education

**Bachelor of Engineering**

National College of Engineering

*Talchikhel, Nepal*

- Major in Computer Engineering ( Full Scholarship )

## Projects

- **Quantum Harmonic Oscillator:** Visualization of quantum **mechanics** on a harmonic Oscillator using **Jupyter Notebook**, **Scipy** and **Numpy**.(01/2025)
- **Fraud Detection:** Detect fraudulent financial transactions by identifying anomalies leverage autoencoders..(11/2024)
- **Sentiment Analysis:** Designed a web based real-time sentiment analysis using **BERT** and **FastAPI**.(09/2024)
- **Goal Prediction:** Revamped the **Google cloud** tutorial using open source libraries such as **PySpark**, **Tensorflow** to analyze the football data and calculate shot distance, angle and goal prediction.(08/2024)
- **Algorithm Visualizer:** Created a game to visualize the working of the A star algorithm using **Pygame**.(11/2023)
- **Major Project:** Digitalize traditional educational systems by developing student learning platforms using **Python/Flask** and Machine learning. (03/2021)

## Others

- **Certificate of Appreciation:** Organization committee of Tech event **YATRA** at National college of Engineering in Nepal(02/2018)