Roshan

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SOFTWARE ENGINEER

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Python Developer with **almost 2 years of experience** in **web development, APIs, and automation** using **Django, Flask, and FastAPI**. Experienced in **system optimization, task queues, real-time data processing**, and **cloud deployments**. Familiar with **AWS, Docker, and NixOS**, focusing on automation and reliability. Enjoys building efficient and maintainable software solutions.

EXPERIENCE

Python Developer   Aug 2023 - Jan 2025
Strag Solution Private Limited - Contractual   *Remote*

- Improved **knowledge management efficiency** by **syncing 100+ knowledge files** from **Dropbox** using a **ChatGPT-based assistant** integrated via APIs.
- Enhanced **log monitoring efficiency by 40%** and reduced **troubleshooting time by 30%** by implementing a **real-time log viewer** with **0.5-second latency**.
- Maintained **99% uptime** and handled **5000+ daily queries** by developing an **unofficial YouTube search API** using proxy-based request rotation.
- Reduced **operational costs** by deploying **FOSS software solutions**, eliminating the need for paid subscriptions.
- Increased **client profitability** by optimizing **trading strategies** through **back-testing cryptocurrency candlestick data** fetched via automated Python **Scrapy**.
- Boosted **productivity by 3×** by automating responses through the **integration of an AI Chat Assistant** into **ManyChat.com**.
- Automated **YouTube video transcript summarization** by leveraging **large language models (LLM)**, streamlining content analysis.

PROJECTS

Automated Cowin Vaccine Slot Booking - [Video Demo]   Source Code

Python · Termux · Cloudflare · Requests · Bs4

- Achieved **500+ successful** bookings by automating the COVID-19 vaccine slot reservation process using python script.
- Optimized **booking speed by 99%** through reverse-engineering the private Cowin API for real-time slot availability.
- **Attained a 99%** success rate by automating OTP retrieval and booking via Termux on Android.

Deals Tracker - [Access Here]

Python · Django · Celery · Flower · Scrapy · BeautifulSoup · Postgresql · Docker · Nix

- Ensured a **99.9% success** rate in **bypassing** restrictions by developing a Django backend with **advanced proxy** techniques.
- Handled **10,000+ daily** API requests by integrating **Celery** to manage **100+ concurrent** tasks efficiently.
- Streamlined deal tracking across **10+ categories** by broadcasting curated high-quality deals via a **Telegram** channel.

IGNOU Result Checker Bot - [Access Here]   Source Code

Python · Pyrogram · Bs4 · MongoDB

- Increased **result-checking** efficiency by **100%** by automating Telegram-based instant result retrieval for IGNOU students.
- Eliminated **manual** result checks through **periodic** website scans, ensuring **instant** notifications with zero delays.

Code Image Generator Bot - [Access Here]   Source Code

Python · Pyrogram · Playwright · FastAPI · Nix · NixOS

- Enhanced **code presentation** quality by enabling users to generate visually appealing **images** using Carbon.now.sh via a **Telegram bot**.
- Supported **100+ requests** per second by building a **high-performance** standalone API with **FastAPI**.

Gitly - [Access Here]   Source Code

Python · Pyrogram · Httpx · Nix

- Optimized **code-sharing workflows** by developing a Telegram bot for seamless GitHub gist creation, supporting **10+ files** per gist.
- Achieved a **98% success** rate in gist creation by **integrating** with **GitHub's API**, ensuring reliability and user satisfaction.

TECHNICAL SKILLS

Languages	:	Python · JavaScript
Front-End	:	HTMX · Alpine.js · HTML · CSS, Bootstrap
Database	:	Postgres · Redis
Frameworks	:	Django · Flask · FastAPI
Platforms	:	NixOS · AWS EC2 · Cloudflare · Heroku
Other Tools	:	Postman · Scrapy · Selenium · Docker · Git · Nginx · BeautifulSoup

EDUCATION

Asian International University   Manipur, India
Masters in Computer Applicaton

Indira Gandhi National Open University   New Delhi, India
Bachelor in Computer Applicaton