Hirusha Himath

Backend & Automation Engineer

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📇 PROFESSIONAL SUMMARY

Backend & Automation Engineer with 4+ years of experience designing, building, and operating production backend systems, automation tools, and APIs. Strong focus on backend architecture, asynchronous Python systems, and database-driven applications, with hands-on experience running services used by tens of thousands of users. Experienced in owning systems end-to-end, from problem definition and implementation to deployment, monitoring, and long-term operation on Linux-based infrastructure.

🔧 Technical Skills

Languages
Python, JavaScript, Bash

Backend Development
REST APIs, FastAPI, Express.js, asynchronous systems

Databases
MongoDB, PostgreSQL, Redis, SQLite

Automation
Bots, workflow automation, scripting

Infrastructure & DevOps
Linux, Docker, GitHub Actions, VPS deployments

Cloud & Hosting
Heroku, DigitalOcean, Vercel, Linode, AWS (EC2, S3, Lambda)

Tools & Platforms
Git, Cloudflare Workers, Telegram APIs, n8n

🎓 EDUCATION

Self-Taught Software Engineer
2020 – 2025
Focused on backend development, automation, and infrastructure through hands-on projects and real-world systems (2020–2025).

💼 WORK EXPERIENCE

Backend Developer & Automation Engineer, *Nexa*
01/2021 – 01/2025 | Remote

- Designed, built, and maintained production backend services and automation systems used by **thousands of active users**
- Developed REST APIs, bots, crawlers, and internal tools handling **real production traffic**
- Architected and operated asynchronous Python systems **optimized for low-resource VPS environments**
- Managed Linux servers, Docker-based deployments, CI/CD pipelines, monitoring, and operational maintenance
- Designed and maintained data storage and job processing workflows using MongoDB, PostgreSQL, and Redis
- Automated workflows to replace manual processes and improve reliability and operational efficiency
- Owned systems end-to-end, from initial design and implementation to deployment and long-term operation

Software Developer, *Freelance*
01/2023 – 12/2024 | Remote

- Delivered backend-focused solutions for external clients, including APIs, automation scripts, and small web applications
- Translated client requirements into working systems with clear scopes, timelines, and deliverables
- Built and deployed services on cloud and VPS platforms, handling setup, configuration, and basic monitoring
- Integrated third-party APIs and automated workflows to replace manual or repetitive processes
- Provided post-delivery support, fixes, and minor enhancements based on client feedback

📁 KEY PROJECTS

Telegram Automation System (Mega.nz Integration),
https://github.com/Itz-fork/Mega.nz-Bot
Tech: Python, Mongodb Atlas, Docker, Telegram API, Mega.nz API

- Designed, built, and operated a high-performance Telegram bot serving **30,000+ monthly active users** with **5,000–7,000 daily requests**
- Implemented seamless handling of both public and authenticated Mega.nz content, including file and folder listings
- Architected asynchronous Python workflows **optimized for low-resource VPS** environments
- Implemented rate limiting, abuse prevention, retries, and fault-tolerant file transfer handling
- Designed persistent data storage and job tracking using **MongoDB**
- Provided multiple deployment methods including **Docker images, automated installer scripts, and PaaS support** (Heroku)
- Ran **24/7 production deployments** on self-hosted Linux servers from July 2021 – March 2025
- Iteratively shipped features based on real user feedback and operational constraints

BetterPyroDocs – Documentation Search Engine,
https://github.com/Itz-fork/BetterPyroDocs
Tech: Typescript (Deno), Javascript, MongoDB Atlas, REST APIs

- Designed and implemented a documentation search system combining **scraping, caching, indexing, and query APIs**
- Built a REST API to search API methods and raw functions with support for structured queries
- Implemented a Telegram bot and lightweight web interface for fast, inline documentation lookup
- Designed MongoDB collections and **full-text search indexes** for efficient query performance
- Built data pipelines to scrape source documentation, update caches, and sync indexed data
- Used the project to experiment with **Deno**, **MongoDB Atlas Search,** and search-oriented backend design