

Akshat Kotpalliwar

akshatkot@gmail.com | [GitHub](#) | [LinkedIn](#) [Portfoilio](#)

EDUCATION

• B.Eng. in AI and Data Science <i>D.Y Patil College of Engineering, Akurdi</i>	2022 – 2025 CGPA 6.5
• Diploma in Electronics and Telecommunication <i>Government Polytechnic Nagpur</i>	2019 – 2022 81%

EXPERIENCE

• Backend Developer Intern <i>Pune, India</i>	Feb 2024 - Dec 2024
---	---------------------

- Engineered scalable financial APIs using Node.js and Express, significantly enhancing performance and reliability.
- Led the migration of legacy applications to RHEL, resulting in improved system stability and operational efficiency.
- Developed and optimized CI/CD pipelines, reducing deployment time by 30% and increasing development agility.

PROJECTS

• Fenrir	GitHub
• Developed a self-hosted platform that automates the containerization, deployment, and monitoring of JavaScript/TypeScript applications, with integrated features such as automatic SSL certification and DNS management.	
• Utilized a tech stack including Node.js, PostgreSQL, RHEL, Nginx, Redis, Cloudflare, and TypeScript to build a scalable and efficient solution.	
• Netflix Recommendation System	GitHub
• Developed a web application using Node.js and Express to provide personalized movie recommendations based on user inputs.	
• Implemented a Python-based recommendation engine, utilizing cosine similarity to compare user preferences and provide accurate suggestions.	
• Enhanced system performance by optimizing the code to handle concurrent requests, resulting in a 90% improvement in response time.	

OPEN-SOURCE

• Hasty Server	1,500+ Downloads GitHub
• Developed a high-performance, lightweight web framework, featuring a custom JSON parser and Cross-Origin Resource Sharing (CORS) implementation, inspired by Express.js.	
• Engineered a custom HTTP/1.1 protocol over raw TCP sockets, optimizing the framework for low-latency, high-performance communication.	
• Fingerprint-OSS	1,500+ Downloads GitHub
• Developed a client-side library for collecting user data efficiently, with an emphasis on minimal performance overhead.	
• Optimized the library for speed and resource efficiency, leading to 1,500+ downloads.	
• Disposable Email Detector	110,000+ Downloads GitHub
• Created a Node.js tool for detecting disposable email addresses to prevent fake sign-ups and improve data quality.	

SKILLS

- JavaScript, TypeScript, C++, Node.js, Express.js, React, HTMX, GCP (Cloud), Docker, Podman, CI/CD, Git, Postman, Linux, SQL/NoSQL

AWARDS

- Received 80+ GitHub stars for open-source contributions, demonstrating community recognition.
Managed NPM packages with more than 120,000 downloads, showcasing widespread adoption.
Achieved a combined total of 60,000+ blog impressions, highlighting the reach and impact of published content.