

HARSH UPADHAYAY

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Professional Summary

AWS Certified Software Engineer with 2+ years of experience in taking projects from initial concept to final product. Ability to handle concurrent responsibilities, including client-facing projects and internal tool development. Ready to apply strong problem solving, algorithm and cloud development skills throughout the project lifecycle.

Certifications

AWS Developer Associate, 86% 	Aug 2025 – Aug 2028
AWS SysOps Administrator Associate, 88% 	Jul 2025 – Jul 2028
AWS Solutions Architect Associate, 90% 	Jun 2025 – Jun 2028

Experience

SMS DataTech <i>Software Engineer (Promoted from Intern)</i>	July 2023 – Present <i>Tokyo, Japan</i>
<ul style="list-style-type: none">Responsible for a large-scale scraping project targeting 15+ websites; I am refactoring its legacy codebase, achieving a 95%+ runtime reduction on a key module and containerizing the service to improve scalability and reduce cloud costs.Enhanced scraping reliability by reverse-engineering a target's internal API and implementing a robust solution with proxy rotation and exponential backoff retries.Developed a key internal tool adopted by the dev team; now architecting v2 with a more scalable backend, implementing a robust data pipeline using Kafka.Applied my AWS knowledge to a cloud role, using CloudFormation to deploy new project stacks, debugging CloudFront delivery issues, and managing workflows with ELB and ASG.Co-architected an innovative AI scraping solution and am now leading its implementation by mentoring an intern team on writing robust, production-level code.	
OutScale <i>DSA Mentor</i>	May 2023 – Aug 2023 <i>Remote</i>
<ul style="list-style-type: none">Mentored students on Data Structures and Algorithms through detailed code reviews and feedback.	

Technical Skills

- Languages:** Python, C, C++, SQL
- Frameworks & Libraries:** Django, FastAPI, Scrapy, Pandas, Numpy, REST APIs, MySQL, PostgreSQL
- Cloud & DevOps:** AWS (ECS, EC2, CloudFormation, CloudFront, ELB/ASG), Docker, Kafka, Git, CI/CD, Linux

Projects

Genkimart <i>Python, Django, Django REST Framework, Stripe API</i>
<ul style="list-style-type: none">Developed the complete backend for a CRUD e-commerce web app used by a local retailer, integrating the Stripe API for secure payment processing.
Homelab Server <i>Docker, Docker Compose, Traefik, Authelia, Cloudflare Tunnels</i>
<ul style="list-style-type: none">Design, build and manage a personal server to self-host over a dozen services, including Nextcloud and Jenkins, using Docker Compose.Implemented a secure access model using Traefik as a reverse proxy and Authelia for single sign-on (SSO) authentication across all services.
CipherVault <i>C++, Cryptography, OOPs</i>
<ul style="list-style-type: none">Implemented a suite of classical ciphers, demonstrating strong object-oriented programming and fundamental security concepts.

Education

Indian Institute of Information Technology, Nagpur <i>Bachelor of Technology in Computer Science and Engineering (8.5 CGPA)</i>	May 2024 <i>Nagpur, India</i>
Kendriya Vidyalaya O.N.G.C. <i>Senior Secondary (94.4%), High School (10 CGPA)</i>	March 2019 <i>Dehradun, India</i>

Achievements & Profiles

- Solved **1000+** DSA problems on platforms like **LeetCode** & **Codeforces**.
- Achieved Specialist rating (**1415 max**) on **Codeforces**.
- Published **5+** technical articles on **GeeksforGeeks**.
- Coursera Certs: **Supervised Machine Learning & Advanced Learning Algorithms**.