

HARSH AVICHAL

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EDUCATION

Stevens Institute of Technology

Master of Science in Computer Science

Hoboken, NJ

Sept. 2024 – May 2026

Charotar University of Science & Technology

Bachelor of Technology in Computer Science

Gujarat, India

Sept. 2020 – May 2024

EXPERIENCE

Software Engineer Intern

Jan. 2024 – May 2024

iTeam Technologies

Anand, GJ

- Contributed to the development of an internal logistics management platform by building backend APIs with Node.js and Express, reducing manual inventory tracking delays by 30%.
- Dockerized microservices and deployed them to AWS EKS using Helm, ensuring reliable and scalable service rollout.
- Built Terraform modules for provisioning AWS infrastructure and automated deployments through Jenkins CI/CD, cutting release time by 60%.

Software Engineer Intern

May. 2023 – Sept. 2023

Kareer Studios

Remote

- Developed a role-based student career counseling platform with dashboards for Admins, Counselors, and Students, improving task efficiency by 40%.
- Built secure data intake and performance-tracking modules, a parent meeting scheduler, and a Study Abroad workflow supporting 5+ countries.
- Integrated an ML-based engine using sklearn to suggest university matches, improving counselor alignment accuracy by 25%.

PROJECTS

StudyNotion | *React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Razorpay, JWT*

GitHub

- Built a full-stack e-learning platform enabling instructors to create and monetize courses, with students tracking progress post-enrollment — reducing manual course management efforts by 50%.
- Implemented JWT-based authentication, role-based access control, and Razorpay integration for secure transactions.
- Developed REST APIs and responsive dashboards with protected routes using React Router, Tailwind CSS, and MongoDB.

ConsultEdge | *React.js, Tailwind CSS, Node.js, Express*

Live | GitHub

- Built and deployed a responsive portfolio website to modernize a local tax consultancy's online presence, improving mobile experience and lead conversion potential by 30%.
- Implemented custom form handling with backend validation and deployed the site publicly to production hosting.
- Delivered the project end-to-end, including client requirements, testing, and deployment — now live and in business use.

EasyShop Cloud Infrastructure Deployment | *Next.js, AWS, Terraform, Kubernetes, ArgoCD*

GitHub

- Provisioned Kubernetes-based infrastructure to deploy a modern e-commerce application on AWS EKS using Terraform, integrating GitHub-triggered Jenkins pipelines with ArgoCD for CI/CD, and securing production traffic via TLS-enabled NGINX ingress with Cert Manager and custom domain routing.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C, C++, Bash, Shell, SQL

Frameworks/Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Material-UI, Redux

DevOps & Tools: Docker, Kubernetes, Helm, Jenkins, Git, GitHub, GitLab, Ansible, ArgoCD, SonarQube, Terraform

Cloud Platforms: AWS (EC2, S3, CloudFront, EKS, IAM), Azure

Databases: MongoDB, PostgreSQL, Redis

Monitoring & CI/CD: Prometheus, Grafana, Jenkins, Github Actions

Operating Systems: Linux, Unix, Windows