Vinod Sharma

work.vinodsharma23@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

- Cloud Engineer with 2+ years of experience designing, deploying, and optimizing scalable cloud infrastructures on AWS. Expertise in DevOps practices, AWS Solutions Architect principles, infrastructure as code (IaC), containerization, and CI/CD pipelines. Achieved 99.9% uptime, reduced costs by automating workflows, and enhanced security/compliance. AWS Certified Solutions Architect – Associate. Skilled in multi-cloud strategies, serverless architectures, and hybrid environments.

EDUCATION

DePaul University   Chicago, IL
Master of Science in Computer Science   *Sep 2023 – June 2025*

- **Relevant Coursework**: Object-Oriented Software Development, Distributed Systems, Principles of Database Management Systems, Data structures & Algorithms, Cloud Computing (AWS-focused).

Gujarat University   Gujarat, India
Bachelor of Computer Applications   *April 2019 – May 2022*

EXPERIENCE

Cloud Engineer - Graduate Assistant   December 2024 – June 2025
DePaul University   *Chicago, IL*

- Architected and deployed REST API-driven web app on AWS EC2 and Lambda using Node.js + Express, replacing SaaS tools and saving $200/month.
- Automated data extraction/synchronization for 200+ users via AWS API Gateway and WhenIWork integration, leveraging S3 for storage and eliminating manual processes.
- Implemented RBAC with AWS IAM, deployed behind Elastic Load Balancers (ELB) and Auto Scaling Groups for 99.9% uptime, monitored via CloudWatch.
- Managed VPC networking, security groups, and Route 53 for resilient cloud architecture.

Cloud DevOps Engineer   June 2024 – November 2024
DePaul University — IRL Lab   *Chicago, IL*

- Built secure backend services on AWS using Node.js/Express with JWT auth, IAM roles, and bcrypt hashing; integrated RDS PostgreSQL for data management.
- Reduced latency by 60% through AWS ELB and Nginx strategies, improving throughput 40% for enterprise traffic; optimized EC2 instances and S3 buckets.
- Engineered CI/CD pipelines with GitHub Actions, Docker, and AWS CodePipeline/CodeDeploy, accelerating deployments 8x with zero-downtime via blue-green strategies.
- Containerized apps with Docker, orchestrated via ECS/EKS, implemented SSL/TLS with ACM, and ensured compliance in Linux-hosted AWS environments.
- Utilized Terraform for IaC to provision VPCs, subnets, and security infrastructure.

Full Stack Cloud Developer - Internship   Feb 2023 – June 2023
Innomatic Research lab   *Hyderabad, India*

- Designed horizontally scalable systems on AWS using React, Node.js, Express, and MongoDB Atlas; migrated legacy apps to cloud-native architectures.
- Boosted throughput 25% by optimizing EC2 performance, database tuning with RDS, and implementing CloudFront CDN for global distribution.
- Led agile reviews, established DevOps standards with Git, Jenkins alternatives (GitHub Actions), and automated testing/deployments.
- Integrated AWS Lambda for serverless functions, SQS/SNS for messaging, and DynamoDB for NoSQL scalability.

PROJECTS

Break Reminder Chrome Extension Link
- * Developed with React.js + TypeScript, serving 1000+ users; deployed on AWS Amplify for hosting and scalability.
- * Engineered background workers using AWS Lambda for real-time scheduling; integrated REST APIs with API Gateway and fallback via S3.
- * Achieved 99.9% reliability with CloudWatch monitoring and ECS containerization.

CERTIFICATIONS

- * **AWS Certified Solutions Architect – Associate** Certificate
- * **AWS Certified DevOps Engineer – Professional (In Progress**

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, HTML/CSS, Bash/PowerShell

Cloud Platforms : AWS (EC2, S3, Lambda, RDS, VPC, IAM, ELB, CloudWatch, CodePipeline, ECS/EKS, Amplify, CloudFront), Azure (Basics)

DevOps : CI/CD (GitHub Actions, Jenkins, AWS CodePipeline), Docker, Kubernetes, Terraform (IaC), Ansible, Git

Security & Networking : JWT, OAuth, SSL/TLS, Firewalls, VPC Peering, Route 53, ACM

Databases : PostgreSQL, MongoDB, MySQL, DynamoDB, Redis

Monitoring & Tools : CloudWatch, Splunk, Prometheus, Grafana, Nginx, Linux, Agile/Scrum