

Sagar Gupta

 [Sagargupta16](#) |  [sagar-gupta-16-10](#) |  sg85207@gmail.com |  +91-8770532413

Education

National Institute of Technology Warangal, Telangana Master of Computer Application (MCA)	August 2021 - June 2024 8.38 CGPA
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Experience

Amazon Web Services Professional Services	August 2024 - Present Hyderabad, India
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Project: *DevOps Infrastructure Automation - State Street*

- ◊ Developed and maintained reusable Terraform modules for critical AWS services including EventBridge, CloudWatch, SNS, EBS, and AWS Detective, ensuring standardized infrastructure deployment
- ◊ Implemented comprehensive unit testing framework using tftest to validate Terraform modules, ensuring infrastructure reliability.
- ◊ Designed and delivered technical specifications and user guides aligned with enterprise security hardening guidelines.
- ◊ Collaborated closely with stakeholders to gather requirements and ensure delivery of infrastructure solutions meeting business needs

Technologies: AWS (EventBridge, CloudWatch, SNS, EBS, Detective), Terraform, tftest, Git

Amazon Web Services Associate Professional Services, Internship	March 2024 - July 2024 Hyderabad, India
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Project: *ECS Application Deployment with Terraform*

- ◊ Led migration of on-premises web application to AWS ECS, implementing high-availability architecture and CI/CD pipeline using AWS CodePipeline, reducing maintenance overhead.
- ◊ Architected infrastructure as code using Terraform, managing AWS resources including VPC, ALB, and ECS clusters while implementing blue-green deployment strategy for zero-downtime updates.
- ◊ Automated Docker image building and deployment process through integration of AWS CodeBuild, CodeDeploy, and Amazon ECR, streamlining application delivery workflow.
- ◊ Established comprehensive monitoring solution using AWS X-Ray and CloudWatch for distributed tracing and full observability of application performance.

Technologies: AWS (ECS, CodePipeline, ECR, X-Ray, CloudWatch), Terraform, Docker, Git

Ikarus-3D Software Developer Associate, Internship	May 2023 - July 2023 Mohali, India
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Project: *Web Application Containerization and Deployment*

- ◊ Led containerization of application with Docker and orchestrated deployment to AWS using ECR and ECS services.
- ◊ Implemented comprehensive CI/CD pipeline using GitHub Actions, automating build, test, and deployment processes.
- ◊ Standardized codebase with linting tools and deployed SonarQube on AWS EC2 with RDS integration for code analysis.

Technologies: AWS (EC2, ECR, ECS, RDS), Docker, GitHub Actions, SonarQube, Python, JavaScript.

Industry Certifications

• AWS Certified Cloud Practitioner	Certificate
• AWS Certified AI Practitioner	Certificate
• AWS Certified Solutions Architect – Associate	Certificate
• AWS Certified Machine Learning Engineer – Associate	Certificate
• HashiCorp Certified: Terraform Associate	Certificate

Projects

Placementto: MCA Placement Portal	Dec 2023 - Feb 2024
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Developed a Placement Portal website for MCA students with robust security, intuitive UX, and interactive data visualization. [GitHub Repo](#)

- **Tools & technologies used:** MERN (MongoDB, Express.js, React.js, Node.js), AG Grid, AG Charts, JWT, Nodemailer.
 - ◊ Implemented secure authentication with role-based access and forgot password functionality via email.
 - ◊ Customized AG Grid and AG Charts for enhanced UI and data interaction.
 - ◊ Developed all backend APIs with stringent security measures including rate limiting and logging to ensure data integrity and protection against potential threats.
 - ◊ Leveraged MERN stack for robust and scalable development, utilizing MongoDB for database management, Express.js for backend server, React.js for dynamic frontend, and Node.js for server-side logic.
 - ◊ Designed an interactive and user-friendly UI to facilitate seamless navigation and usage, enhancing overall user experience.

Leetcode Rating Predictor	Nov - Dec 2023
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Developed LeetCode Rating Predictor using LSTM for accurate contest performance forecasts. [GitHub Repo](#)

- **Tools & technologies used:** React, FastAPI, Numpy, Pandas, Tensorflow, GraphQL.
 - ◊ Implemented LSTM model for precise LeetCode rating predictions through deep learning.
 - ◊ Developed a user-friendly React front-end for seamless data input and a FastAPI backend for efficient data handling.
 - ◊ Utilizes GraphQL, MinMaxScaler for efficient data fetching and normalization.

Technical Skills and Interests

Languages & Frameworks: C++, Python, Java, JavaScript, SQL, React, Express.js, Fast-API, Rest-API

Cloud & DevOps: AWS (EC2, ECR, ECS, CloudWatch, EventBridge, SNS, etc.), Terraform, Docker, Ansible

Developer Tools: Git, GitHub Actions, MongoDB, MySQL, SonarQube, Unity Engine

Soft Skills: Leadership, Teamwork, Communication, Critical Thinking

Coursework: Cloud Computing, DSA, Database, Game Development, Web Technologies, Image Processing

Areas of Interest: Full-Stack Development, DevOps, MLOps, Cloud Computing, Data Science, Game Development

Positions of Responsibility

- **Class Representative**, MCA Final Year, National Institute of Technology, Warangal.
- **Additional Secretary**, CSEA - NITW, focusing on Contest and Development teams.

Aug 23' - Jun 24'

Aug 23' - Jun 24'

Achievements

- 4th Position in TriNIT Hackathon.
- 1st Position in Coding Cauldron Online VERSION 23', organized by NIT-Trichy.
- 1st Position in QFiesta IGNOSI 22', organized by NIT-Warangal.
- 1289th Position(Top 5%) at Google Kick-start Round E '22.
- 3rd Position in INFOTREK '22 LOGIC HEAD, organized by NIT-Trichy.
- 3rd Position in Event MOTHRA - VERSION '21, organized by NIT-Trichy.

[Certificate](#)

[Certificate](#)

Coding Platform Profiles

LeetCode(Sagargupta1610) : Over 1100+ DSA problems solved, 80+ contests participated, 1950+ rating.

GFG(sagargupta10) : Over 350+ DSA problems solved.

HackerRank(Sagargupta1610) : Achieved 6 Star (Problem-Solving) , 5 Star (C++).

CodeChef(sagargupta_16) : Achieved 3 Star Rating and Participated 20+ Rated Contests.