Bishal Biswas

Kolkata, India ✉ bishal692002@gmail.com ☎ 9531632450 in bishal2002 ⌗ bishal692002 🔗 Coding Profile

Career Objective

Enthusiastic software developer with a strong foundation in AWS cloud concepts, infrastructure automation, and configuration management. Skilled in Ansible and currently advancing in Terraform to implement infrastructure as code. Familiar with containerization and database management, while applying prompt engineering techniques to enhance productivity. Eager to contribute to agile teams and grow into a cloud, data engineering, and DevOps professional.

Education

Vellore Institute of Technology, Bhopal   2024-2026
Master of Computer Applications. (CGPA: 9.05 / 10.00)   *Bhopal, Madhya Pradesh*

The Oxford College of Science   2020-2023
Bachelor of Computer Applications. (CGPA: 7.78 / 10.00)   *Bangalore, Karnataka*

Projects

VIT-Bolt – Campus Delivery Platform 🔗 | *JavaScript, Node.js, Express.js, MongoDB, TailwindCSS, Docker*

- Built a campus-exclusive delivery platform with domain-restricted authentication, creating a secure ecosystem while generating local employment by engaging village workers.
- Expanded the platform with an on-campus essentials store, boosting utility by 35% and transforming it into a one-stop solution for daily student needs.
- Optimized the intelligent order routing system and containerized the Node.js + MongoDB stack with Docker and Docker Compose for consistent AWS EC2 deployment.

AWS Production-Ready VPC Setup 🔗 | *AWS (VPC, EC2, ALB, Auto Scaling, NAT Gateway, IAM, AWS CLI*

- Engineered a highly available AWS architecture designed for 99.9% uptime by leveraging a multi-AZ deployment, Application Load Balancer (ALB), and Auto Scaling.
- Architected a secure network topology using a custom VPC with public/private subnets, NAT Gateways, and granular Route Tables to isolate resources.
- Secured infrastructure by deploying a bastion host and enforcing the principle of least privilege with fine-tuned IAM roles and SSH key-based authentication.

GameZone Portal – Cloud-Hosted Gaming Hub 🔗 | *AWS EC2, Linux Scripting, Node.js, HTML, CSS, JavaScript*

- Built an interactive gaming hub featuring organised titles with platform-based filtering, a real-time star rating system, and detailed game information to enhance user engagement.
- Deployed a scalable Node.js application on AWS EC2, automating server provisioning with custom Shell scripts, while enforcing security through fine-grained EC2 Security Groups.
- Architected core full-stack features, including a RESTful API and responsive vanilla JS front-end; also leveraged prompt engineering techniques with AI tools during development to accelerate debugging and feature design.

Technical Skills

Languages: Python, HTML, CSS, JavaScript, Shell Scripting
Web Development: Node.js, Express.js
Cloud & DevOps: AWS (EC2, VPC, S3, IAM, ELB, ASG), CI/CD(Basics) , Docker, Ansible, Shell Commands, Terraform (Upskilling)
Databases: MySQL, MongoDB
Developer Tools: Git, GitHub, GitHub Actions, Postman, VS Code, Google Colab, Jupyter Notebook

Activities & Leadership

Tech Head – Technical Club, The Oxford College of Science

- Led 4 workshops and 1 hackathon, engaging 150+ students while fostering technical learning and collaboration.
- Executed event plans with faculty and student teams, ensuring smooth operations and participation.

Team Lead – Academic Semester Project

- Led a 4-member team to design and develop a full-stack application as part of curriculum requirements.
- Delegated tasks across backend, frontend, and deployment to ensure timely project delivery.

Achievements & Certifications

- AWS Cloud Practitioner Essentials – AWS Training & Certification, Completed June 2025.
- HackerRank Certifications: Problem Solving (Basic), Python (Introductory), Software Eng. Intern.
- Placement Student of the Year (2023) – Awarded for outstanding performance in campus placements.