Debarpita Dutta

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Professional Summary

Passionate and results-driven **Cloud Computing and DevOps Engineer** with a strong foundation in **AI/ML, Cybersecurity, and Full Stack Development**. Adept at architecting scalable cloud solutions, implementing **CI/CD pipelines**, and optimizing infrastructure using **AWS, Kubernetes, and automation tools**. Experienced in **machine learning workflows** and **high-performance computing**, with a keen interest in driving efficiency through technology. A proactive problem solver with a continuous learning mindset, eager to contribute expertise in **cloud security, distributed computing, and intelligent automation** to build cutting-edge solutions.

Core Competencies: AWS | CI/CD | Docker | Cloud Security | DevOps | Golang | Full Stack Development | Next.js | Distributed Systems | TCP/IP

Education

Vellore Institute of Technology   [Bhopal, India]

B. Tech CSE [Specialization in Cloud Computing and Technology]
Year: 3rd Year.
Graduation year: (Estimated) Oct 2026
Academic Projects under VIT:
- Secure File Storage Using Hybrid Cryptography
- Smart Traffic Control System- Traffic Genie

Relevant Courses under VIT:
Computer Networking, AI & Machine Learning, Cloud Data & Security Management, Fog & Edge Computing, Parallel & Distributed Algorithms, High-Performance Computing.

Experience

KodeKloud - Content Intern   [Sept 2024 – Dec 2024]
- Reviewed 50+ course modules before publication to ensure accuracy and clarity.
- Maintained editorial consistency across 50+ course modules, improving user readability.
- Optimized AI lab build tools, improving course engagement by 15%.
- Enhanced readability and learning outcomes by refining course content and UI flow.
- Published 30+ course modules, reducing editorial backlog by 25%.

Leadership & Achievements

- Member at Google Developer Student Club (GDSC)
- Participant, Google 2023 Winterfest
- Finalist, Google Gen AI Hackathon (APAC Region) – Team of 5
- AWS AI/ML Summer School Exam
- Gold Medallist, Maharashtra Government – Recognized for an awareness project on women's safety and crime prevention.
- National-Level Spell Bee Qualifier
- Participant, Deloitte Hack Plosion
- Competitor, ServiceNow Hackathon for Women

Technical Skills

- **AWS Services**: EC2, EBS, S3, AWS Lambda, AWS Elastic Beanstalk, ECS, EKS, AWS VPC, AWS CloudFront, RDS, IAM, Athena, ELB, DataLake.
- **DevOps**: CI/CD Pipelines, Docker, Kubernetes, Terraform, Jenkins (Ongoing)
- Programming: **Java (DSA, Dynamic Programming), Golang(ongoing), C++ (OOPs), Python (Basic)-Versatile, Enthusiastic, Problem solver in a fast-paced environment. Ability to collaborate, test, deploy, and maintain software solutions.**
- **Developed scalable systems for secure file storage using distributed computing principles**
- **Databases:** NoSQL, MySQL, RDBMS, PostgreSQL
- Ability to **interpret data**, **diagnose problems**, and create action plans
- **Machine Learning**: Built ML models using Kaggle datasets [preliminary]
- Web Development: HTML, CSS, JavaScript, MERN Stack, Next.js, Stripe
- **Tools:** Git (Version Control), Git Bash (Command Line Interface), PowerShell, SSH client
- **Operating Systems: Experience working with Unix/Linux environments, distributed systems, machine learning, information retrieval, and TCP/IP.**

Badges & Certifications : https://github.com/devv712/Certifications

- AWS: Certified Cloud Practitioner 2024, Certified Solution Architect Associate 2025
- Licences & Certifications: Software Engineering Job Simulation by JP Morgan Chase and Co.
- AWS Solutions Architecture Job Simulation By Forage
- Earned AIML Badges (by Google Cloud): **Prompt Design in Vertex AI Skill Badge, Build Real World AI Applications with Gemini and Imagen Skill Badge**

Project Work: [https://github.com/devv712]

- Ather Mind- Built a full-stack AI SaaS Platform with Next.js 14, TypeScript, and Stripe.
- Savvy Tracker: concept of web scraping and built a Next.js 14 eCommerce price tracker with the help of data scraping, shell, cron jobs, and sending emails.
- SSH Log Analysis for Brute-Force Attack Detection: A Python-based tool for analyzing SSH authentication logs to detect and report potential brute-force attacks.
- Smart Shop- Generative AI Shopping Assistant

Research Papers

- "Secure File Storage Using Hybrid Cryptography ":-Published at IJARSCT
- "Federated Learning: Privacy-Preserving Machine Learning Across Decentralized Devices with Insights from the GDPR Perspective ":- Published at IJCRT