

Manas Gantait

Kolkata | India

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PROFESSIONAL SUMMARY

- Final-year engineering student with a strong execution-oriented mindset, focused on building **dependable, scalable, and failure-aware systems** that support modern product delivery. Demonstrated capability in **translating requirements into resilient execution paths, coordinating service-level interactions**, and enabling **operational continuity under changing load and constraints**. Experienced in **shaping deployment flows, enforcing control boundaries**, and improving **system responsiveness through automation-first thinking**. Proven contributor across **analytical problem decomposition, structured implementation, and documentation clarity**.

TECHNICAL SKILLS

Programming & Scripting: Python, Bash, Java, JavaScript, SQL

Software Engineering Fundamentals: Operating Systems, System Design Principles, Distributed Systems Basics

Cloud Platforms & Networking: Amazon Web Services (AWS), Microsoft Azure, VPC, Subnets, Route Tables, NAT/Internet Gateways, Load Balancing (ALB/NLB), DNS (Route53), Auto Scaling

Cloud Governance & Cost: AWS Budgets, Cost Allocation Tags, Basic Cost Monitoring

DevOps, IaC & Configuration: CI/CD Pipelines, ArgoCD, Jenkins, Terraform, Ansible

Containers & Orchestration: Docker, Kubernetes (Deployments, Services, Ingress, HPA), Helm

Monitoring, Observability & Reliability: Amazon CloudWatch (Metrics, Logs, Alarms), Prometheus, Grafana

Security & Identity: IAM Policies (JSON), RBAC, SSL/TLS, Secrets Management, OIDC-based Authentication

Operating Systems & Web Infrastructure: Linux (Ubuntu), Nginx, TCP/IP Fundamentals

Version Control & Automation: Git, GitHub, GitHub Actions, Agile/Scrum Practices

PROJECTS

GrowEasy | [AWS Lambda](#), [Java](#), [DynamoDB](#), [EKS](#), [GitHub Actions](#), [Terraform](#), [React.js](#)

July 2024

- Engineered GrowEasy, a serverless retail forecasting platform leveraging Lambda-driven event processing and DynamoDB aggregation to automate demand prediction and inventory optimization across multi-store operations.
- Deployed a distributed Lambda engine with partition-key scaling architecture processing 10K+ transactions/hour, minimizing stockout incidents by 35%, reducing inventory shrinkage, and strengthening supply chain robustness.
- Accelerated deployment velocity by 60% through GitHub Actions-based CI/CD automation and Terraform infrastructure provisioning, enabling zero-downtime releases and improving delivery efficiency across containerized EKS environments.
- Delivered a React-powered real-time analytics dashboard via API Gateway with request optimization and caching layers, elevating retail forecasting accuracy by 70%, enabling data-driven decision-making, and accelerating business intelligence.

CloudGuard360 | [GCP-Cloud Functions](#), [Lambda](#), [Terraform](#), [Kubernetes](#), [Docker](#), [CloudWatch](#), [IAM](#)

October 2025

- Designed a unified multi-cloud governance platform centralizing infrastructure visibility, cost analytics, and resource optimization across AWS and GCP, enabling cross-cloud consistency and infrastructure decisions.
- Standardized provisioning with reusable Terraform modules and infrastructure-as-code practices, reducing environment setup time to under 5 minutes, accelerating deployment velocity by 40%, and minimizing configuration errors.
- Implemented zero-trust security architecture with IAM policies, role-based access controls (RBAC), and multi-factor authentication (MFA), blocking 100% of unauthorized API calls, strengthening compliance, and enabling audit trails.
- Unified monitoring stack through CloudWatch and Google Cloud Operations integrations, aggregating performance metrics, application logs, and infrastructure events to elevate observability by 50%, enabling real-time anomaly detection and analysis.

AutoShield | [AWS](#), [Lambda](#), [CloudWatch](#), [EventBridge](#), [DynamoDB](#), [IAM](#), [SNS](#)

June 2025

- Constructed an automated multi-cloud remediation framework detecting and resolving misconfigurations across AWS, Azure, and GCP, improving compliance accuracy and minimizing manual intervention.
- Orchestrated EventBridge-Lambda pipelines and DynamoDB-SNS automation, achieving 95% faster cross-cloud issue resolution and saving 40+ engineer-hours monthly through intelligent auditing.
- Scaled observability suite leveraging AWS X-Ray and CloudWatch for real-time incident tracing and diagnostics, reducing response time by 30% and enhancing system reliability.

PROFESSIONAL EXPERIENCE

AWS **August 2025**
Virtual
Solutions Architecture Intern

- Engineered infrastructure blueprints for **distributed multi-tier applications**, emphasizing scalability, cost-efficiency, and resilience using **AWS services**.
- Assessed workload patterns and mapped optimal cloud resources (**EC2, S3, RDS, Lambda**) to business requirements, reducing operational overhead and improving performance.
- Analyzed production infrastructure trade-offs and documented technical justifications to achieve the best performance-to-cost ratio across deployments.
- Certificate:** AWS Internship Credential (LinkedIn)

JPMorgan Chase & Co **November 2025**
Virtual
Software Engineering Intern

- Architected a **5-module backend system** using **Java, Spring Boot, Apache Kafka, and H2 database** to process real-time financial transactions with persistent data validation and balance reconciliation logic.
- Devised **asynchronous event-driven architecture** by consuming high-throughput Kafka message streams and integrating third-party incentive APIs via **REST** clients for real-time transaction enrichment and reward automation.
- Exposed **RESTful endpoints** using Spring Web MVC to query user balances with error-handling capabilities, coupled with **H2 JPA persistence**, demonstrating full-stack backend development across API contract and database layers.
- Certificate:** JPMorgan Software Engineering Internship Credential (LinkedIn)

EDUCATION

University of Engineering and Management **Expected Graduation – July 2026**
Bachelor of Technology in Computer Science and Engineering CGPA: 7.15 *Kolkata, India*

Mohar BM High School **September 2020 – April 2022**
10+2 Standard in Science Percentage: 89.6% *Medinipur, India*

Uchitpur Palli Pran High School **January 2014 – July 2020**
10th Standard in Science - Percentage: 88.7% *Medinipur, India*

PROFESSIONAL CERTIFICATIONS & CREDENTIALS

- AWS Certified Solutions Architect – Associate** ✓ [↗](#)
- Microsoft Azure Fundamentals (AZ-900) (Certified)** [↗](#)
- Industrial Project Management** ✓ [↗](#)

ACHIEVEMENTS & HACKATHONS

University of Engineering and Management, Kolkata **2023 – 2025**

- Served as Student Coordinator and organized student events, ensuring smooth execution and engaging 200+ participants [↗](#)

CodeX 2.0 Hackathon – Finalist **2025**
Panipat Institute of Engineering and Technology — Collaboration with Hackingly *Panipat, Haryana*

- Finalist among **500+ teams** by developing **GrowEasy** using **AWS Lambda, DynamoDB, React, and Terraform** to deliver a hands-on, production-grade retail forecasting solution under time constraints through effective team collaboration