Athry Mittal

9115559609 | athrymittal00071@gmail.com | linkedin.com/in/athrymittal | github.com/ATHRV1

Education

VIT Bhopal University

Aug. 2022 - May 2026

B. Tech in Computer Science - CGPA:8.73

Bhopal, India

Technical Skills

Languages & Tools: C++, Python, Java, JavaScript, HTML, CSS, SQL, Git, VS Code, Excel

Data Analysis Libraries: NumPy, Pandas

Frameworks & Technologies: React, Node.js, Express.js, Spring Boot, Jira

Databases & CS Fundamentals: MongoDB, PostgreSQL, Spring Data JPA, Data Structures and Algorithms

Cloud: Basic AWS (S3, SQS, DynamoDB), Apache Kafka, REST APIs, JUnit

Experience

Escorts Kubota Ltd. June 2025

Industrial Trainee

Faridabad, Haryana

- Analyzed a 3,600-row vehicle dataset using Excel and Python (Pandas, NumPy) to identify performance patterns.
- Applied data cleansing methodologies to identify and document data quality issues, including outliers and null values.
- Presented data-driven insights on vehicle efficiency, focusing on the analytical process and data storytelling.

IgniteU Learning Ventures Pvt. Ltd.

Mar 2025 – Apr 2025

Software Development Intern

Noida, Uttar Pradesh (Hybrid)

- Enhanced a Java/Spring Boot microservice by implementing metric logic and refactoring a critical N+1 query issue.
- Accelerated Kafka consumer bug resolution by isolating, reproducing a critical JSON parsing error in the data pipeline.
- Developed comprehensive unit tests with JUnit Mockito, mocking JPA repositories to validate new business logic.

Projects

Vercel-Style Cloud Deployment Platform | AWS SQS, S3, Node.js, Express, DynamoDB, React

May 2025

- Implemented cloud deployment platform with 3 core services: Upload, Deployment, and Request Handler.
- Engineered async workflows via AWS SQS & S3 storage for GitHub cloning, secure builds and static hosting.
- Established Node.js backend in Express, simple-git, Dynamo DB for deployment lifecycle and status tracking.
- Built React frontend for repo submission, deployment status polling, and post-build URL generation.
- Reduced build-trigger times to under 10s by optimizing repo cloning, builds, and static asset delivery.

Efficient Flight Itinerary Optimizer | Graph Algorithms, Data Structures

Aug 2024 - Nov 2024

- Developed multi-criteria flight planner using BFS & Dijkstra for streamlined routes by connections, cost and time.
- Modeled real-world constraints (20-min layovers, ≤100 flights/city) with O(m) & O(mlogm) efficiency.
- Attained less than 50ms latency via calibrated graph adjacency lists and heap queues for instant route generation.
- Orchestrated scalable solution handling 10k+ flights for real-time travel planning rivaling commercial systems.

High-Performance Task Scheduler for Trading Systems | System Design, Data Structures

Dec 2024

- Built a heap-based task manager achieving O(log W+log T) scheduling complexity for real-time trade execution.
- Designed worker-to-strategy mapping achieving sub-millisecond routing for 1000+ concurrent trading signals.
- Implemented priority-based signal routing based on expected alpha, ensuring highest-edge trades execute first.
- Built auto-balancing system redistributing workload across 10+ strategy engines by throughput optimization.

Achievements

- Competitive Programming: Achieved a 1400+ rating on Codeforces (Specialist) and 1750+ on LeetCode (Top 10%), solving over 1000 DSA problems.
- AWS Certifications: Earned AWS Academy Graduate badges for Cloud Foundations and Cloud Architecting.

Leadership and Extracurricular Activities

Google Summer of Code Club - VIT Bhopal

Jan 2025 - Present

Founding Member and Technical Lead

VIT Bhopal

• Spearheaded the establishment of the GSoc Club at VIT Bhopal, mentoring over 50 members in competitive programming, enhancing technical capabilities for future contributions.