Athrv Mittal

📞 9115559609 — 7986828308

✉ athrvmittal00071@gmail.com   🔗 linkedin.com/in/athrv-mittal-172085252   ⭘ github.com/ATHRV1

Education

VIT Bhopal   Expected May 2026
Bachelor of Technology in Computer Science (GPA: 8.69)   *Bhopal, Madhya Pradesh*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Linear Algebra w/Computational Applications (Python)

Experience

GSoc Club – VIT Bhopal   Jan 2025 – Present
Founding Member and Technical Lead   *Hybrid*
- Led technical initiatives, mentoring 50+ members in competitive programming, resulting in a 30% increase in active participation.
- Organized 3+ large-scale hackathons with 200+ participants, strengthening the club's presence in the technical community.
- Formulated structured training programs, improving members' coding performance by 40% in university-level contests.

Projects

Flight Planner | *Python, Graph Algorithms, Object-Oriented Design*
- Engineered an advanced flight planning system optimizing routes for minimum flights and cost efficiency, reducing travel time by 30% on average.
- Implemented graph-based algorithms with $O(m \log m)$ complexity, ensuring optimal route calculations for real-world flight connections.
- Enhanced system scalability and efficiency, supporting thousands of flight connections with real-time updates.

Digital Library System | *Python, Hash Tables, Custom Hash Functions*
- Engineered a high-speed digital library indexing tool using custom-built HashMap and HashSet, enabling 50% faster keyword searches.
- Instituted adaptive data structure management for high-traffic network nodes, trimming average latency by 18 milliseconds and reducing server resource consumption by 22% during peak hours.

Treasure Quest: The Straw Hat Crew | *Python, Heap Data Structures, Scheduling Algorithms*
- Developed a priority-based scheduling system using custom heap structures, enhancing task allocation by 35%.
- Implemented priority queue algorithms, ensuring optimal workload balancing and faster task execution.
- Increased system throughput by 25% through optimized scheduling and resource management techniques.

Technical Skills

Languages: C, C++, Python, JavaScript, SQL
Technologies: Flask, Flask-SocketIO, Git, Docker, HTML, CSS, Bootstrap, Firebase, Figma (UI/UX)
Concepts: Data Structures, Algorithms, Dynamic Programming, Graphs, Object-Oriented Programming, RESTful APIs, Database Design, Multithreading, Machine Learning, Scheduling Algorithms

Achievements

NPTEL Elite+Silver Certification: Cloud Computing with top 5% rank globally
Specialist rank on Codeforces: Rating of 1400+
Ranked in top 11% globally on LeetCode: 1700+ rating

Social Engagements

Founding-Member: Of the GSoc Club at VIT Bhopal
Sports-Engagements: Marathons, Badminton