HAMMAD HASHMI

+91 8797113228 ◇ Delhi, India

hammadhashmi303@gmail.com ◇ LinkedIn ◇ GitHub ◇ Leetcode ◇ Codeforces

EDUCATION

Bachelor of Technology in Computer Science and Engineering · 2022 – 2026
National Institute of Technology Hamirpur

SKILLS

Languages	C++, C, Python, JavaScript, SQL, Rust
Technical Skills	Linux, Backend Development, Machine Learning, Problem Solving
Tools	Software Development Lifecycle, Postman, Unit Testing, Data Visualization
Courseworks	Data Structures, Algorithms, OS, Networking(TCP/IP), Distributed Systems, DBMS

EXPERIENCE

Data Science Intern · May 2025 – Jul 2025
Ada

- Optimized model hyperparameters with grid search and cross-validation , boosting performance by 28
- Automated EDA workflows using Pandas and Beautiful Soap , cutting manual reporting time by 40%
- Reduced model inference latency by 30% via optimization and caching strategies

Contributor, Clad - Automatic Differentiation Library (CERN HSF) · Jan 2025 – Present
(GitHub Pull Request)

- Contributed to Clad by submitting 5+ PRs, resolving open issues, and implementing new features
- Refactored and extended **differentiation logic for overloaded operators** along with test files with the maintainers

PROJECTS

ArrayCoin · Dec 2024 – Jan 2025
Express.js, Unit Testing, OOP (GitHub)

. Implemented a custom Bitcoin prototype with Array as the core Data Structure along with key Bitcoin Features.
. Exposed RESTful endpoints for wallet & transaction management including PoW mining, Block Validation.

Network Security Threat Detection Pipeline · May 2025 – Jul 2025
Python, Pandas, NumPy, MLflow, AWS, CI/CD, Docker, MongoDB

. Processed 100K+ network events/min through automated ETL in Pandas/NumPy
. Achieved 97.2% detection accuracy , 12% F1-score and orchestrated 5+ MLflow experiments with Optuna for hyperparameter tuning.
. Containerized services with Docker and automated CI/CD along with schema compliance

POSITIONS OF RESPONSIBILITY

Core Executive · Oct 2023 – Aug 2024
Team SPEC, NIT Hamirpur

- Led sponsorship outreach and secured 50K+ funds for international MLH-powered hackathon (200+ participants)
- Designed responsive React portal with team collaboration supporting 1000+ user registrations 10000+ pageviews
- Delivered blockchain workshop to 100+ students with hands-on project on Voting Dapp

ACHIEVEMENTS

- Rated **4 star** on Codechef and **1300+** on Codeforces
- Achieved **772 rank** at IICPC Codefest Prelims (Credentials)
- Selected in **Amazon ML Summer School** among 3k out of 60k+ participants nationwide
- Achieved **All India Rank 392** amomg 30k+ participants in Merchant Navy by IMUCET (Credentials)