

Vikash Kumar

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EDUCATION

M.Tech in Computer Science and Engineering

Jul 2025 – Present

International Institute of Information Technology, Hyderabad

- CGPA: 8.33/10

B.Tech in Computer Science and Engineering

Jul 2018 – Jun 2022

Lovely Professional University

- CGPA: 8.54/10

EXPERIENCE

Software Engineer

Gurugram, India

GirnarSoft Finserv Pvt Ltd

Sept 2022 – June 2023

- Fully functional new **module developed** for the payout mechanism(Improved the **work efficiency** of multiple Teams)
- Created highly optimised multi-purpose reusable APIs.(Improved the **response time from 18sec to 2sec**).
- Implemented a high-priority **KYC feature integration** into the system following new government mandates, ensuring compliance and operational continuity under strict deadlines.

Software Engineer Intern

Bengaluru, India

Odessa Technology

Mar 2021 – June 2022

- Wrote highly maintainable code using **C# ASP.NET framework** backend to incorporate new features.
- Created procedures and wrote queries to perform various **DDL,DML** operations on Database for migration, backup, and optimisation using **SQL Server**, designed and developed reports and documents using SQL Server.

PROJECTS

BitTorrent Implementation | [Github](#)

Sep 2025 - Oct 2025

- Built a peer-to-peer file sharing application implementing the **BitTorrent protocol with tracker and client components**, supporting **multi-peer downloading, piece-based file sharing**.
- Developed **tracker coordination for peer discovery**, file integrity verification, and TCP socket optimization for network throughput.
- Tools Used: C++, Multi-threading (POSIX Threads), TCP Sockets, File Handling

POSIX Shell Implementation | [Github](#)

Aug 2025 - Sep 2025

- Developed a custom interactive shell in C++ with **command parsing, process management, and piping capabilities**.
- Implemented **I/O redirection, built-in commands, and command history features**.
- Tools Used: C++, POSIX APIs, fork/execvp, File Handling

TECHNICAL SKILLS

- **Languages:** Java,C++, C, Python, C#, ASP.NET framework
- **DBMS:** MySQL, SQL Server
- **Tools:** Git, Github, Jupiter Notebook, VS Code, BitBucket, Jira, Confluence, Replicon

ACHIEVEMENTS

- Secured AIR 83 IIIT-H PGEE '25
- GATE DA 2025 - 94.54 Percentile
- GATE CS 2024 - 97.76 Percentile