

ABHISHEK PATIDAR

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Education

Shri G. S. Institute of Technology and Science

Bachelor of Technology in Electrical Engineering

July 2021 – June 2025

Indore, Madhya Pradesh

Work Experience

Summer of Bitcoin

April 2024 – September 2024

Software Development Engineer Intern

Remote

- Built a firmware update system **supporting 10+ ASIC models** and multiple update sources, ensuring compatibility.
- Improved system reliability by **40%** by implementing optimized handling and **caching** in the update function.
- Enhanced ease of management by designing a scalable and **user-friendly** firmware update solution.

Google Summer of Code - SymPy

May 2023 – September 2023

Open Source Developer

Remote

- **Optimized SymPy's polynomial processing** using sparse GCD algorithms, reducing computation time by 97%.
- **Implemented the PRS algorithm** with sparse representations, enhancing GCD computation across domains.
- **Introduced benchmarks** demonstrating **20% to 97%** speed improvements across 20 algorithms and 5 domains.

Achievements

- **Codeforces:** Specialist with a peak rating of **1570** — Solved **550+** competitive programming problems. [View Profile](#)
- **Leetcode:** **Knight** with peak rating of **1849** — Successfully solved **1000+** DSA-oriented problems. [View Profile](#)
- **Codechef:** **4 Star** with a peak rating of **1907** — Solved over **250+** analytical problems. [View Profile](#)
- Achieved a global ranking of **561st** out of **25,000+** participants in [LeetCode BiWeekly Contest 155](#).
- Secured Global Rank **135th** among **25,000+** participants in [Codechef Starters 76 Div 2](#).
- Achieved a global ranking of **804th** out of **34,000+** participants in [LeetCode Weekly Contest 415](#).
- Secured Global Rank **359th** among **20,000+** participants in **Google Kickstart 2022**.
- **Top 1% (50/5,000)** selection from 50 countries in the **Summer of Bitcoin 2024**.
- **Top 2% (967/43,765)** selection from **160 countries** in the **Google Summer of Code 2023**.
- Authored **10+** articles on data structures, algorithms, and Python for **GeeksforGeeks**, and improved **100+** articles.

Projects

Mine Your First Block ↗

- Validated **1000 transactions** from mempool to ensure compliance with rules before including them in the mined block.
- Constructed block header with metadata, including hash of **50 blocks**, a **1s** timestamp, and a nonce from **10,000** tries.
- Generated `output.txt` documenting the mined block and **150 transactions** comprehensively, including detailed IDs.

AI Resume Reviewer ↗

- Integrated advanced **NLP** for resume parsing, keyword clustering, and categorization, improving efficiency by **30%**.
- Enhanced user resumes with **actionable recommendations**, **predictions**, and **analytics** for job applications.
- Expanded tool's impact with organizational insights, benefiting educational institutions and job seekers.

Technical Skills

Languages: Python, C++, C, Java, HTML/CSS, JavaScript, SQL.

Technologies/Skills: React.js, Bootstrap, MySQL, AI, ML, FastAPI, Redis.

Developer Tools: Windows, Linux, GitHub, VS Code, WordPress.

Courses: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, DBMS, Computer Networks.