Naman Pahwa

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EDUCATION

BIT MESRA, RANCHI
Integrated Msc. in Mathematics And Computing
Expected Jun 2026
CGPA: 8.52 / 10 (Up to 6th Semester)

SRS PUBLIC SCHOOL, ROHTAK
CBSE AISSCE (12th) | 2020
Percentage: 88.2%

BBB PUBLIC SCHOOL, ROHTAK
CBSE AISSE (10th) | 2018
Percentage: 90.2%

LINKS

Github:// **Optimus-NP**
LinkedIn:// **naman-pahwa**
LeetCode:// **optimus_np**
CodeForces:// **optimus_np**
GeeksforGeeks:// **namanpahwa20**

SKILS

PROGRAMMING LANGUAGES
• C • C++ • Python • Kotlin • Java

TECHNOLOGIES
• HTML • Tailwind CSS • ReactJS
• NodeJS • MongoDB • Firebase
Authentication • Firestore Database
• ExpressJS • OpenCV • Javascript
• NumPy • Pandas • Prompt Engineering

ML
• OpenCV • NumPy • Pandas • Prompt
Engineering

TOOLS
• Git • Android Studio • VSCode

COMPUTER FUNDAMENTALS
• Operating Systems • Data Structures and
Algorithms • Database Management
Systems • Object Oriented Programming

POSITION OF RESPONSIBILITY

IEEE-BIT MESRA (MEMBER)
- Led and organized **4 coding contests and technical workshops** under IEEE Chapter
- Taught **300+students in C++ workshop** covering **Sieve and STL**

EXPERIENCE

VOLTAS | Software Engineering Intern
May 2024 - Jul 2024 | Ranchi
Tech: AWS, CloudWatch Logs, ReactJS, NodeJS, LLM, Hugging Face APIs.
- Tested and troubleshot **8 bugs** in new prototype AC software.
- Consolidated logs from **10+ services** for example: TelemetryCapturingService, DiagnosticsDataCapturingService etc in **5 easy steps**.
- Leveraged **LLMs** to generate **100 words** summary of searched logs.
- Overall, it saved **15 minutes** of developer time in troubleshooting any issue.

GYAN | Java and Android Certification
May 2023 – Jul 2023 | Rohtak | GitHub Repository Link
Tech: Android, Cryptography Algorithms: (Diffie-Hellman, AES)

- Built Android App to facilitate exchange of **encrypted messages** between peers.
- Leveraged **Diffie-Hellman** to simplify the secure key exchange and **AES-128** for text encryption.
- Ensured security enhancements by **auto-rotating** keys **every 30 days**
- Offered robust protection against **potential cyberattacks**, safeguarding **1B+ Internet customers** and their **1Z+ of text messages**.

PROJECTS

BIT MESRA | Researcher
Aug 2024 – Present | Ranchi | GitHub Repository Link
Tech: MERN stack, LLM, Hugging Face APIs, Tailwind CSS, VSCode, GIT

- Performed the sentiment analysis of the **Kaggle provided 1M reviews Amazon book reviews** leveraging the LLM models.
- Built bookstore website that displays the book description, customer reviews and **sentiment analysis statistics** thus adding **5X acceleration to decision making** process.

BIT MESRA | Researcher
Jan 2024 – May 2024 | Ranchi | GitHub Repository Link
Tech: Python, OpenCV, Numpy, Pandas, Matplotlib

- Worked with **Asst. Prof. Dr. Dinesh Kumar** to evaluate **Image Encryption, and Decryption using Chaotic Maps** specifically **Arnold Cat Map** & **Logistic Map**.
- Hybrid of both maps is **5x more secure** because Arnold Cat Map is resilient against **statistical & brute force attacks**, while Logistic Map **resists noise attacks**.
- The Arnold Cat Map requires **2X** computational power and is **2x faster** in image encryption.

AWARDS

2024	1692/28000	Ranked in Codeforces Round 859
2024	Pupil	Current Ranking on CodeForces
2024	Knight	Current Ranking on Leetcode
2024	top 300/1200	Global Economics Case Competition (Organized by IIM Trichy)