

# APOORVA YADAV

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## EDUCATION

Atal Bihari Vajpayee Indian Institute of Information Technology and Management

2023 - 2027

Bachelor of Technology in Computer Science and Engineering | CGPA - 8.28

Gwalior, Madhya Pradesh

## TECHNICAL SKILLS

**Languages:** C, C++, Python, OCaml, HTML/CSS, JavaScript, React, TailwindCSS

**Frameworks and Tools:** Flask, Next.js, GitHub, VSCode, Jupyter, Eclipse, OpenGL

**Proficiencies:** Data Structures & Algorithms, Object-Oriented Programming, UI/UX Research & Design, Cybersecurity

## EXPERIENCE

Google 🏠

May 2025 – July 2025

*Associate Software Developer Intern*

*Bengaluru, Karnataka*

- Implemented YouTube's **Auto Sharding Tool v2.0**, which **optimizes test runtime** to address submit latency (causing BDD).
- Designed **new algorithm** to support desharding and extended support for Omnistresser and CPFT tests across YouTube.
- Built a **Placer Helper** python library for operations on **database storage management**.
- Achieved **runtime reduction** and **eliminated over-sharding** of inefficient tests.
- Contributed to Google code base with **22** CLs and **3600** lines of code.

## PROJECTS

Cyberdesk — Python, React 🏠

Ongoing

- Developed a web application that provides visibility into key security aspects of a personal computer.
- Built a **Password & Browser Security Analyzer** using entropy-based evaluation and vulnerability checks for outdated configurations.
- Developed a port scanner, Camera/Microphone usage detection, CPU activity monitor, and sniffer detection with ARP/DNS spoofing and promiscuous mode alerts.

Blackhole Simulator — Rust, GLFW 🏠

Ongoing

- Interactive 3D Simulator of photon paths and accretion-disk appearance around a Schwarzschild and Kerr black hole.
- Built in **Rust** for safety and performance; **GLFW** for windowing/input and OpenGL context.
- Real-time or near-real-time rendering** using GPU fragment shaders for ray-tracing/ray-marching; CPU fallback for accurate geodesic integration.

Previously On Netflix — Flask, Python, HTML, CSS, JavaScript 🏠

July 2024

- Role:** UI/UX Designer, Frontend Developer & Backend Integration
- Developed a unique web application that analyzes users' Netflix viewing history files and presents personalized insights through interactive and engaging visualizations.
- Designed over **20 wire frames & prototypes**, maintaining a consistent theme inspired by Netflix.
- Received positive feedback from the program mentors for innovative design and seamless user experience.

## CERTIFICATIONS & MENTORSHIPS

- Google Cybersecurity Certificate - Coursera
- Google UX Design Professional Certificate - Coursera
- Google Women Engineers Scholar '24

February 2024

Selected for Cohort 6 of the Women Engineers Program by TalentSprint, supported by Google as one of the top **1%** applicants from over **30,000+** applications.

## ACHIEVEMENTS

- Upcoming **Summer SWE Intern 2026** at Google.
- Semi-Finalist** in Google Girl Hackathon, 2025.
- Secured **Gold Medal in American Math Olympiad (AMO)** 2021 conducted by SIMCC and SIU, with Country Rank 1.