

Aayaan Kumar

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Education

IILM University, Gurugram

B.Tech - Computer Science and Engineering (Second Year)

2025 – 2029

CGPA: 9.08

Technical Skills

Languages: Python, C, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Tailwind CSS, Vite

Developer Tools & Cloud: Git, Firebase, Supabase, Figma, Linux

Experience

QNNX

May 2026 – July 2026

Software Engineer Intern

Remote

- Engineered and deployed a production Post-Quantum Cryptography (PQC) API on AWS, integrating a PostgreSQL database to manage secure system state and API records.
- Engineered a proxy-based quantum-secure VPN utilizing ML-KEM and AES-GCM to encrypt active browser and web traffic through a central decryption gateway to ensure secure internet routing.
- Developed frontend dashboards for real-time monitoring and visibility into the VPN and PQC API operations.
- Designed and implemented the company's responsive main landing page, improving brand presence and user onboarding.

Projects

Kaptions | HTML/CSS, JavaScript, Gemini API [Preview]

July 2026

- Built a client-side captioning platform that transcribes and burns styled captions in videos, no server or upload needed.
- Engineered an LLM pipeline via Gemini API to detect word emphasis, driving caption styles with adaptive color.
- Designed and implemented 10+ dynamically animated caption styles (word-highlighting, build-up reveals, multi-tier emphasis) rendered via Canvas and exported using the WebCodecs API for hardware-accelerated video encoding.

GamersDex | Next.js, Firebase, Tailwind CSS, RAWG API [Preview]

February 2026

- Built a gaming profile platform to track completed, active, wishlisted, and dropped games via shareable profile URLs.
- Implemented Google Authentication and secure Firestore rules with enforced username uniqueness.
- Built gamified progression features including ranks, user-driven Aura interactions, and competitive leaderboards.

InfraTrack | Next.js, Firebase, Tailwind CSS, Cloudinary

February 2026

- Developed a real-time status tracking system for live issue updates, enhancing transparency across the campus.
- Built a secure Firebase auth system with personalized dashboards for students, staff, and admins to manage issues.
- Integrated Cloudinary and Firebase for seamless media uploads, letting users attach visual evidence for fixes.

UniSecureShare (Team Project) | Next.js, Supabase, Tailwind CSS

January 2026

- Led the frontend team to build a secure file-sharing platform and campus portal for IILM University.
- Developed intuitive dashboards for students and faculty, prioritizing a clean layout for course materials & user progress.
- Managed workflows and code reviews for the frontend team to ensure a consistent design system and efficient delivery.

Wallpapers Empire | Next.js, Tailwind CSS, Pexels API [Preview]

June 2025

- Developed a dynamic wallpaper discovery platform that fetches high-quality images using the Pexels API.
- Built with Next.js to ensure fast server-side rendering (SSR) and optimized image loading for a seamless user experience.
- Designed a fully responsive grid layout with Tailwind CSS to display curated collections across all devices.

Leadership / Extracurricular

Centre of Excellence - CyberSecurity and Digital Forensics

Technical Secretary

Nov 2025 – Present

IILM University, Gurugram