

Aakash Kumar

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SKILLS

- **Languages** Java, C++, TypeScript, JavaScript,
- **Frameworks:** React, Next.js, HTML and CSS TailwindCSS, SpringBoot
- **Tools/Platforms:** MySQL, RESTful APIs, Postman, AWS, Git & GitHub, Google Analytics 4 (GA4), Microsoft Clarity
- **Soft Skills:** Problem-Solving, Team Work, Leadership, Adaptability

INTERSHIP

- SDE INTERN OUTWRK MEDIA LLP. Nov' 25 - July' 26
- Enhance AdsFlo Ui with responsive, high-performance UI for AdsFlo platform using Next.Js and TypeScript.
 - Integrated Meta & Instagram Ads APIs using Java and Spring Boot, automating the ad ingestion process and eliminating manual data entry, and streamlined cross-platform synchronization for marketing campaigns.
 - Accelerated page loads and UI responsiveness via Next.js SSR and optimized data retrieval for better SEO.
- Tech: HTML, CSS, JavaScript, React.js, Next.js, SpringBoot, Java, Maven, Docker, Aws, Git & Github

PROJECTS

- Dpi - Engine – Deep packet inspection – Network Analysis Tool | GitHub | Live** Feb' 26 - May' 26
- Developed a C++ DPI system to parse Ethernet, IPv4, and TCP/UDP protocols, extracted SNI from TLS handshakes to identify encrypted traffic (e.g., YouTube, Facebook, chrome) for network classification.
 - Architected a multi-threaded engine using Load Balancers and Fast Path pools with consistent hashing (5-tuple) to ensure thread-safe, stateful packet processes for high-speed network interfaces.
 - Built a rule-based filtering system for real-time traffic blocking by IP, app, or domain, featuring an automated analytics reporter for network traffic insights and enhance overall system security.
- Tech: C++, Pthreads, TCP/IP, TLS/SSL, PCAP API, Networking protocols, Git, Github
- OmniCommerces Os – Dynamic Saas E-commerce Application | GitHub | Live** Dec' 25 - Jan' 26
- Architected secure data isolation using a database discriminator pattern to ensure 100% privacy between independent merchant storefronts and prevent unauthorized cross-tenant data access.
 - Implemented RBAC security to manage granular permissions, separated administrative data points per search for global locations to deliver a highly secure and customized merchant experience.
 - Crafted a high-performance UI using React 19 and Tailwind 4, featuring a bento-grid dashboard and fluid Motion animations to provide a modern, visually cohesive dashboard experience.
- Tech: Java, Spring Boot 3, React 19, HTML, Tailwind CSS 4, PostgreSQL, Figma, Git, Github.

CERTIFICATES

- Cloud Computing Certification | NPTEL (IIT Kharagpur) May' 26
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | Oracle Dec' 25
- Fundamentals of Network Communication | University of Colorado Boulder Jul' 25
- CHATGPT – 4 prompt Engineering: CHATGPT Generative AI & LLM | Infosys Jan' 25

ACHIEVEMENTS

- Solved over 50+ Data Structure and Algorithm problems on LeetCode. Oct' 25
- Earned top badges on LeetCode and HackerRank, including a 5-star rating in C++ for consistent performance. Aug' 24
- Reached a peak LeetCode contest rating of 1452, showcasing competitive programming strength. Mar' 24

EDUCATION

- Lovely Professional University** Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.57** Since Aug' 23
- Jamuni Lal College** Hajipur, Bihar
Intermediate; **Percentage: 62** Apr '22 – Apr' 23
- Vaishali Central Public School** Vaishali, Bihar
Matriculation; **Percentage: 70** Apr '20 – Apr' 21