

# Aakash Kumar

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## SKILLS

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

## INTERNSHIP

- SDE INTERN OUTERK MEDIA LLP. Nov' 25
- Enhance AdsFlo Ui with responsive, high-performance UI component for AdsFlo platform using React and TypeScript.
  - integrated Meta & Instagram Ads APIs using Java and Spring Boot, automating the ad ingestion process and streamlining data synchronization for marketing campaigns.

Tech: JavaScript, Reacts.js, Next.js, Node.js, Express.js, MongoDB, SpringBoot, Java, Git

## PROJECTS

- Dpi - Engine – Deep packet inspection – Network Analysis Tool | GitHub | Live** Dec' 25 to Feb' 26
- Developed a C++ DPI system to parse Ethernet, IPv4, and TCP/UDP protocols, extracting SNI from TLS handshakes to identify encrypted traffic (e.g., YouTube, Facebook, chrome).
  - Architected a multi-threaded engine using Load Balancers and Fast Path pools with consistent hashing (5-tuple) to ensure thread-safe, stateful packet processing.
  - 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.
  - Tech: C++, Pthreads, TCP/IP, TLS/SSL, PCAP API, Networking protocols.

- OmniCommerces Os – Dynamic Saas E-commerce Application | GitHub | Live** Jan' 26 to Feb' 26
- Architected secure data isolation using a database discriminator pattern to ensure 100% privacy between independent merchant storefronts.
  - Implemented RBAC security to manage granular permissions, separating administrative data points per search for over 100,000 global locations.
  - Crafted a high-performance UI using React 19 and Tailwind 4, featuring a bento-grid dashboard and fluid Motion animations
  - Tech: Java, Spring Boot 3, React 19, Html, Tailwind CSS 4, PostgreSQL, Figma, Git, Github.

## CERTIFICATES

- Solutions Architecture Job Simulation AWS | (Forge) Jan' 26
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | Oracle Dec' 25
- CHATGPT – 4 prompt Engineering: CHATGPT Generative AI & LLM | Infosy Jan' 25
- Fundamentals of Network Communication | University of Colorado Boulder Jul' 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: 6.32** 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