KIRTAN JAIN

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EDUCATION

- **Indian Institute of Technology, Patna**   2021 – 2025
  B.Tech in Computer Science and Technology   *CPI: 7.52/10*

WORK EXPERIENCE

- **Samsung Research Institute - Noida**   Jul 2025 – Present
  R&D Engineer   *Noida, India*
  - Maintained and optimized Android Framework components (Multi-window, Picture-in-Picture, Samsung DeX) for **OneUI 8.5 & 9.0** using **Java** and **Kotlin**.
  - Enhanced system stability across diverse form factors, including **foldable flagships**, while ensuring seamless AOSP integration for global device rollouts.
- **Sprinklr**   May 2024 – Jul 2024
  Product Engineering Intern   *Gurgaon, India*
  - Architected a middleware solution with a **custom control UI** to capture and mock GraphQL/REST API responses, effectively slashing local development latency by **50%**.
  - Ensured continuous frontend productivity during backend outages by converting this caching mechanism into a reusable **npm package**, now adopted across multiple development environments.

PROJECTS

- **OneIITP** | *React Native*   App Store | Play Store
  Lead Developer   *Sep 2024 – May 2025*
  - Developed the unified campus companion app for IIT Patna, integrating live bus tracking, marketplace, and event updates into a scalable platform; currently serving **2000+ active students**.
  - Built entirely in **React Native** for a seamless cross-platform experience (Android/iOS) with optimized latency.
- **Alloc8 - Room Allocation Portal** | *MERN*   Website
  Project Lead   *Apr 2024 – Jun 2024*
  - Conceptualized and led the development of a portal streamlining hostel room allocation for **3000 students** into 1400 rooms in a matter of **minutes**; hosted on **AWS Lightsail** with Caddy load-balancing.
  - Implemented **Redis-based distributed locks** to ensure atomic room selection and secure roommate pairing.

TECHNICAL SKILLS

Languages: Java, Kotlin, C++, Python, JavaScript, TypeScript, SQL (MySQL), Bash
Frameworks: Android SDK, Jetpack Compose, React Native, React.js, Next.js, Node.js, Express.js, GraphQL, Tailwind
Tools & Platforms: AWS, Firebase, Redis, Docker, Git, Perforce, Linux, Gradle, Postman

PUBLICATIONS

- **When Words Can't Capture It All: Video-Based User Complaint Generation**   arXiv
  CIKM 2025   *Dec 2024 – May 2025*
  - Defined **CoD-V** (Complaint Description from Video), a novel multimodal task to automate technical support reporting. Curated **ComVID**, a benchmark dataset of 1,176 annotated videos.
  - Achieved state-of-the-art generation performance by fine-tuning a **VideoLLama2** model integrated with **MultiModal RAG**, effectively bridging the gap between visual context and textual issue description.
- **M3Hop-CoT: Misogynous Meme Identification**   arXiv
  EMNLP 2024   *Jan 2024 – May 2024*
  - Proposed **M3Hop-CoT**, a Chain-of-Thought framework for detecting multimodal hate speech. Engineered a three-hop prompting strategy (Emotion, Target, and Context) to decode implicit misogyny, significantly outperforming unimodal baselines.

ACHIEVEMENTS/EXTRACURRICULAR

- **ICPC India Regional Finalist 2024** (Amritapuri); ranked among the top 3 teams at IIT Patna.
- **Competitive Programming:** Expert on Codeforces (Max: 1805, cerelac) | 4* on CodeChef (Max: 1927, jarsofcandy).
- Awarded **KVPY Fellowship** (SA-2019, SX-2020) by Dept. of Science and Technology, Govt. of India.
- Secured **AIR 2194** in JEE Advanced 2021 (Top 1.5% of 150,000+ candidates).
- **General Secretary, Technical** (Student Gymkhana '24-25)
- **Overall Events Head**, Inter-IIT Cultural Meet 7.0
- **National Finalist**, NTPC Electron Quiz '24. | **General Quiz Finalist**, at Nihilanth '25 (IIM Calcutta)