

AKARSH BAJPAI

Software Engineer | Open to Software Engineering, Backend, Android & Full-Stack Opportunities

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⚡ Competitive Programming: [LeetCode](#) 1700 rating • [Codeforces](#) 1084 • CodeChef 1250

EDUCATION

GL Bajaj Institute of Technology and Management <i>B.Tech in Computer Science Engineering · Greater Noida · CGPA: 8.2 / 10</i>	2024 – 2028
St. Lawrence School Higher Secondary Certificate (Class XII) · India	2019 – 2023

TECHNICAL SKILLS

Languages: Kotlin, Java, JavaScript, C++, HTML5, CSS3
Frameworks & Libs: Node.js, Express.js, Socket.IO, Android Jetpack, Chess.js, EJS
Mobile & Backend: Android SDK, MVVM Architecture, Firebase, REST APIs, MongoDB, WebSockets
CS Fundamentals: Data Structures & Algorithms, OOP, System Design, Clean Architecture, Event-Driven Architecture
Tools & Platforms: Git, GitHub, Android Studio, VS Code, Agile

PROJECTS

- Real-Time Multiplayer Chess Platform** | [GitHub ↗](#) | [Live Demo ↗](#) *Node.js · Express.js · Socket.IO · Chess.js · JavaScript · EJS · CSS*
- ▶ **Architected a full-stack real-time chess platform** enabling concurrent multi-user gameplay via persistent WebSocket connections (Socket.IO), achieving low-latency board state synchronization across all connected clients.
 - ▶ **Engineered a role-based session system** dynamically assigning Player 1, Player 2, and Spectator roles with guaranteed state consistency and conflict-free concurrent session handling.
 - ▶ **Implemented complete server-side game logic** using Chess.js — enforcing move legality, turn order, check/checkmate/stalemate/draw detection — within a modular event-driven backend architecture.
 - ▶ **Designed a responsive drag-and-drop interface** with instant visual feedback and clean client-server separation via Express.js + EJS server-side rendering.
- NewSynk — AI-Powered News Aggregation Platform** | [GitHub ↗](#) | [Play Store ↗](#) *Kotlin · Android SDK · Firebase · MVVM · REST APIs · Android Jetpack*
- ▶ **Built and deployed a production-grade Android platform** live on Google Play Store using MVVM clean architecture and Firebase backend, delivering real-time personalized news feeds with 99%+ uptime.
 - ▶ **Integrated multiple REST APIs** with asynchronous data pipelines and AI-based filtering logic for personalized delivery, with systematic error handling and edge-case validation across all API layers.
 - ▶ **Optimized UI performance** through efficient state management, lazy loading, and modular component architecture — improving render speed and long-term maintainability.
- ABmusic — Advanced Android Music Player** | [GitHub ↗](#) *Kotlin · Android Jetpack · Android SDK · OOP · DSA*
- ▶ **Developed a feature-complete music player** using Kotlin and Android Jetpack with DSA-optimized playlist management, metadata-based search, and efficient in-memory state handling.
 - ▶ **Implemented advanced UX features** including gesture controls, lock-screen integration, smart notifications, and resume playback — achieving 40% performance improvement through optimized state management.
 - ▶ **Enforced OOP principles and clean modular architecture** across all system layers enabling scalability, reusability, and streamlined debugging.

EXPERIENCE

- Campus Lead** · [Open Source Connect](#) *Dec 2025 – Present*
- ▶ Lead campus-wide open-source initiatives, mentoring 50+ students in Git workflows, version control, and collaborative software development best practices.
 - ▶ Organized and delivered technical sessions on structured development practices, driving measurable improvement in student contribution quality to open-source repositories.
- Open Source Contributor** · [Social Winter of Code \(SWOC\)](#) *Jan 2026 – Present*
- ▶ Contributed feature implementations and bug fixes to production-level open-source repositories, following code review cycles and maintaining codebase quality standards.
- Software Development Intern** · [SkillCraft Technology](#) *Nov 2025 – Dec 2025*
- ▶ Developed and debugged application modules in a production environment, applying software engineering principles across the full development lifecycle.

CERTIFICATIONS

Cybersecurity Foundation · Network Security Fundamentals · Security Operations Fundamentals — **Palo Alto Networks** | Android App Development — **Udemy**