

Arshdeep Singh

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Professional Summary

Aspiring backend software engineer focused on building AI-integrated systems and developer tooling. Hands-on experience designing RESTful services using Java, Spring Boot, and MongoDB, and integrating LLM APIs using structured prompt design and context-driven workflows.

Education

Chitkara University

Aug 2023 – Jun 2027

Bachelor of Engineering in Computer Science | CGPA: 8.70

Punjab, India

– Coursework: Data Structures, Operating Systems, DBMS, Computer Networks

Technical Skills

Languages: Java, TypeScript, JavaScript, Python

Backend: Spring Boot, Node.js, Express.js, REST API Design

Databases: MongoDB, MySQL, PostgreSQL

AI & LLM: LLM API Integration, Model Context Protocol (MCP), Prompt Engineering, Context-Oriented Workflows

Cloud & DevOps: AWS, Docker

Frontend: React, Next.js, React Native

Concepts: Microservices Architecture, JWT Authentication, CI/CD, System Design Fundamentals, Data Structures & Algorithms

Projects

CareerCompass | Next.js, TypeScript, Gemini AI, Stripe

- GitHub: github.com/arsh342/careercompass | Live: careercompassai.vercel.app
- Developed AI-powered career platform for a Devpost hackathon submission
- Designed RESTful backend services with role-based authentication and subscription workflows using Stripe
- Integrated LLM APIs using structured prompt engineering and context-aware workflows

Job Application Service | Java, Spring Boot, MongoDB

- GitHub: github.com/arsh342/Job-Application-Service
- Led a team project to design RESTful backend using Spring Boot with JWT-based authentication and modular service architecture
- Modeled MongoDB schemas with indexing and validation for performance and data integrity
- Implemented centralized exception handling and layered controllerservicepository architecture

GameVault Mobile App | React Native

- GitHub: github.com/arsh342/tic-tac-toe-react-native
- Developed cross-platform mobile application with modular architecture and optimized state management; integrated Google AdMob and published to Play Store

Certifications

Anthropic AI Certifications, 2026 Model Context Protocol (Foundations Advanced Topics), Claude Code, AI Fluency

Cisco Networking Academy Certifications, 2025 Introduction to Modern AI; Apply AI: Analyze Customer Reviews

Achievements

Hacktoberfest Contributor, 2025 Accepted open-source contributions (Badge ID: cmgmeh4xb0018l104d4y49mwj)

GitHub Contributions 200+ contributions (github.com/arsh342)