

# 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

Bachelor of Engineering in Computer Science | CGPA: 8.70

Aug 2023 – Jun 2027

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](https://github.com/arsh342/careercompass) | Live: [careercompassai.vercel.app](https://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](https://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 controllerservicerepository architecture

### GameVault Mobile App | React Native

- GitHub: [github.com/arsh342/tic-tac-toe-react-native](https://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](https://github.com/arsh342))