

Varun Bali

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CAREER OBJECTIVE

A results-driven Computer Science Engineering student seeking a Software Engineer Graduate role to build and enhance innovative collaboration tools. Experienced in Java (Spring Boot), Python, and RESTful microservices. Eager to contribute to AI-driven productivity solutions and shape the future of hybrid work experiences within a talented, collaborative engineering team.

EDUCATION

Chitkara University

Bachelor of Engineering in Computer Science — CGPA: 7.93

Baddi, Himachal Pradesh

July 2022 – July 2026

P.K.R. Jain Senior Secondary Public School

Class XII — 75%

Ambala, India

June 2020 – July 2022

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, Go

Frameworks & Libraries: Spring Boot, React 19, Next.js, Tailwind CSS, Pandas, NumPy, OpenCV

Microservices & APIs: REST API, Spring Security, JWT, Razorpay, CORS, Gradle, Vite, ESLint

Databases: MongoDB, PostgreSQL, SQL

Operating Systems: Linux, Windows

PROJECTS

Civis 🔄 | React, Java, Spring Boot, PostgreSQL, JWT, Spring Security

Jan 2026 – Apr 2026

- Built a multi-user civic issue reporting platform with role-based dashboards for Citizens and Admins, supporting real-time complaint status updates, image upload, and geo-location tracking.
- Designed secure RESTful microservices with Spring Boot and Spring Security, enabling concurrent multi-user access with JWT-based authentication and fine-grained role-based access control.
- Architected a PostgreSQL schema for complaint lifecycle management and delivered a collaborative React.js admin dashboard with real-time status tracking across user roles.
- Wrote unit and integration tests using JUnit 5 and Mockito for the Spring Boot service layer, ensuring reliability of authentication and complaint workflows.

ShopSphere 🔄 | Next.js 16, TypeScript, Java, Spring Boot, JWT, MongoDB, Razorpay, REST API

Dec 2025 – Jan 2026

- Built a multi-user e-commerce platform with Next.js 16 and Tailwind CSS, supporting concurrent buyer and admin sessions backed by Spring Boot REST APIs and MongoDB.
- Implemented multi-role authentication with Spring Security and JWT, and integrated Razorpay payment gateway with real-time order creation, webhook handling, and signature verification.
- Developed real-time email notification and auto-reply system using Spring Mail and Node Mailer, enabling instant communication between users and the platform.

YouTube-Auto 🔄 | Python, OpenCV, NumPy, pynput, Computer Vision

Aug 2025 – Nov 2025

- Engineered a real-time AI-driven hand-gesture recognition system using OpenCV and HSV skin-color detection, demonstrating hands-free AI-powered productivity UX applicable to collaboration tools.
- Implemented a multi-gesture contour analysis pipeline classifying four gestures (fist, open hand, thumbs-up, pinky-up) and mapping them to real-time system-level media commands via pynput.
- Optimised the frame-processing loop with NumPy vectorisation to achieve sub-100ms gesture response latency, suitable for real-time interactive use.

CERTIFICATES & ACHIEVEMENTS

- NPTEL Certificate — Python for Data Science, IIT Madras [View Certificate](#)
- Infosys Certified — AWS for Administrators (Cloud & DevOps track)
- HackIndia National Finalist — top-tier national hackathon, demonstrating collaborative problem-solving under pressure