

Abhay Bansal

Software Engineer | Backend and Full-Stack | TypeScript, Node.js, Go, PostgreSQL, Redis
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Portfolio: abhaybansal.tech | LeetCode: leetcode.com/u/abhaybansal_ | CodeChef: codechef.com/users/bansal03

SUMMARY

Backend-focused Software Engineer who built AI workflow infrastructure across Fastify microservices at Adaptware using TypeScript, Node.js, PostgreSQL, Redis, Socket.IO, and LangGraph, plus Go REST services and full-stack Next.js apps. LeetCode Guardian (2200+, top 1% globally) and CodeChef 4-Star (1916+) with 800+ DSA problems solved.

SKILLS

Languages: C++, Go, TypeScript, JavaScript, SQL

Backend: Node.js, Fastify, REST APIs, Microservices, OpenAPI, Socket.IO/WebSockets, JWT Authentication, LangGraph

Frontend: React, Next.js

Databases: PostgreSQL, Redis

DevOps and Tools: Docker, GitHub Actions (CI/CD), AWS (EC2, S3), Git, Linux, Postman

Testing: Unit Testing, Integration Testing, Go testing

Core CS: Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Networks

EDUCATION

Thapar Institute of Engineering and Technology

Bachelor of Engineering (B.E.) in Computer Science and Engineering; CGPA: 8.4/10

Patiala, Punjab

Sep 2022 - Jun 2026

EXPERIENCE

Adaptware Solutions Pvt Ltd.

Software Engineering Intern

Chandigarh, India

Mar 2026 - Jul 2026

- Developed recruiting and AI-workflow features in a monorepo of 2 independently deployable Fastify microservices
- Engineered a TypeScript integration layer to the Orion AI service, enabling 20+ AI workflows across 12+ modules
- Built Socket.IO workflow execution with concurrency throttling, supporting up to 50 parallel AI runs per instance
- Added JWT auto-refresh, request correlation, connection reuse, and timeouts, keeping AI socket sessions authenticated
- Implemented multi-turn workflows with LangGraph checkpoints and Redis, preserving state across 5+ conversational flows
- Integrated sentiment analysis into live interviews every 30 seconds, streaming results to interviewers via Socket.IO
- Integrated recruiter-assist live interview analysis every 2 minutes, persisting insights to PostgreSQL

PROJECTS

AE Brand User Invitation System

github.com/abhaybansal0322/AE-Brand-User-Invitation

Tech: Go, REST APIs, Docker, OpenAPI, GitHub Actions

- Built a Go REST backend for invitations and self-service onboarding, exposing 6+ user-management operations
- Implemented authorization, request validation, and duplicate-user checks with audit logging and multi-persona support
- Containerized the service with Docker, documented it with OpenAPI, and automated unit tests in GitHub Actions CI

DevSquad MCP

github.com/abhaybansal0322/Devsquad

Tech: MCP Server, TypeScript, Node.js, npm, AI Agents

- Published an MCP server on npm that turns vague coding prompts into structured workflows for 4 AI coding agents
- Developed a TypeScript prompt classification engine that routes each request into one of 3 execution paths
- Added rule-based review gates that make AI edits to auth, payments, databases, deployments, and secrets safer

Smart Expense Splitter

github.com/abhaybansal0322/smart-expense-splitter

Tech: Next.js, TypeScript, PostgreSQL, NextAuth, Docker

- Engineered a full-stack Next.js and PostgreSQL expense splitter with 4 split modes: equal, exact, percentage, itemized
- Validated settlement logic against 1000+ generated expense cases, confirming penny-accurate results
- Implemented a greedy algorithm that minimizes the number of transactions needed to settle a group

ACHIEVEMENTS

- Secured Global Rank 25 among 20,000+ Division 2 participants in CodeChef Starters 216
- Secured Global Ranks 136 and 176 in LeetCode Weekly Contests, placing in the top 1% of 30,000+ participants
- Awarded INR 3 Lakh Merit Scholarship by Thapar University for academic excellence