

Aditya Verma

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PROFESSIONAL SUMMARY

Full-stack Software Engineer with hands-on experience building AI-powered procurement systems, automation workflows, and scalable backend services. Specialized in Model Context Protocol (MCP) integration, email automation with NLP, and feature development. Hands-on expertise in Ruby on Rails, Python FastAPI, React.js, Node.js, and Go for building production systems. Competitive programmer with 1,300+ LeetCode problems solved. Passionate about building intelligent systems that solve real-world business problems.

PROFESSIONAL EXPERIENCE

Software Development Engineer

April 2025 – Present

Procol

Rajpura, Punjab

- Engineered Email Negotiations Feature integrating NLP to extract and track negotiation terms, pricing agreements, and delivery timelines from unstructured email data; increased quote response rates by 60%
- Contributing to Model Context Protocol (MCP) implementation for seamless integration with multiple AI models and external services, enabling flexible AI model switching and multi-provider LLM support for procurement tasks
- Implemented Web Search capability within the AI-powered procurement system, enabling real-time retrieval of vendor and product information to improve sourcing accuracy and quote evaluation
- Built a Role-Based Access Control (RBAC) Permissions Module to manage granular user roles and access levels across the procurement platform, strengthening data security and access governance
- Developed full-stack features (React, Node.js, TypeScript) with database schema design and REST APIs for ERP/CRM integrations; reduced manual data entry by 70% and processing time from 2 hours to 15 minutes per order

EDUCATION

Chitkara University, Rajpura

2022 – 2026

B.Tech - Computer Science and Engineering - CGPA - 9.3

Rajpura, Punjab

BBMB DAV Public School, Nangal

2021 – 2022

12th - CBSE - Percentage - 91

Nangal, Punjab

COURSEWORK / SKILLS

DSA • Operating Systems • OOP Concepts • Computer Networks • DBMS

PROJECTS

GridHook

2025 – Present

Go, Chi, GORM, PostgreSQL, React.js, TypeScript, Model Context Protocol (MCP)

- Building GridHook, a full-stack platform (Go backend, React.js + TypeScript frontend) that converts REST, SOAP, and GraphQL APIs into AI-callable MCP tools, letting any MCP-compatible AI client invoke external services through one interface
- Architected a credential broker with AES-256-GCM envelope encryption for OAuth2, Bearer, API key, and Basic auth schemes, decrypting secrets only in memory at dispatch time and redacting them from logs and error responses
- Designed a multi-tenant data model (Company → Tenant → Organization → User) enforcing organization-scoped access at the query level across every repository
- Built parsers that auto-generate callable MCP tools from OpenAPI/Swagger specs, Postman collections, WSDL files, and raw curl commands, removing the need to hand-write tool schemas
- Developing the React + TypeScript admin dashboard for managing connectors, tool groups, and MCP servers, backed by an asynchronous audit-logging pipeline that tracks every tool invocation's status, latency, and payloads

FitWave

December 2024

React.js, Tailwind, Express.js, Node.js, MongoDB, AI Integration, JWT, Stripe

- Engineered full-stack fitness tracking platform from scratch, deployed to 500+ beta users within 2 weeks with 70% daily active user retention and 99.5% uptime
- Built RESTful API (Express.js + Node.js) supporting 8 core features handling 50K+ API calls daily with <200ms response time using Redis caching and database query optimization

- Integrated Stripe payment gateway processing 200+ transactions monthly with zero payment incidents; enabled monetization generating estimated \$5K+ in monthly recurring revenue
- Implemented AI-powered workout plan generation using machine learning; increased feature engagement by 55% and reduced user churn by 35% compared to static recommendations
- Developed custom admin dashboard enabling real-time user analytics, product inventory tracking, and campaign management; reduced operational overhead by 25 hours/month

Mines Game

August 2024

Next.js, Tailwind, TypeScript, Vercel (Deployment)

- Built responsive browser-based game deployed to Vercel with <1 second load time and 99.9% uptime; supporting 500+ concurrent users
- Optimized front-end rendering using code splitting and lazy loading
- Implemented dynamic game state management

TECHNICAL SKILLS

Languages: Java, C++, Ruby, JavaScript, TypeScript, Python, Go

Frontend: React.js, Next.js, Tailwind CSS, Redux State Management

Backend: Node.js, Express.js, Ruby on Rails, Go, PostgreSQL, MongoDB, REST APIs, JWT Authentication, WebSockets

AI/ML Integration: Model Context Protocol (MCP), LLM Integration, Natural Language Processing, AI Automation

Cloud & DevOps: Docker, Vercel deployment, CI/CD concepts, Redis caching, AWS basics

System Design: API design, database optimization, caching strategies, microservices architecture, automation workflows

COMPETITIVE PROGRAMMING

- Solved 1,300+ Problems on LeetCode across all difficulty levels
- Solved 500+ Problems across GeeksforGeeks, specializing in graph algorithms and dynamic programming
- Solved 500+ Problems on CodeChef

ACHIEVEMENTS

- Won Internal AI Hackathon at Procol – Built AI-powered procurement automation that won 1st place company-wide. The feature achieved significant market traction, enabling Procol to differentiate from competitors and accelerate product roadmap
- Runner-up in the Advitiya x JPD Hub Hackathon at IIT Ropar