

RATAN GULATI

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EDUCATION

Panjab University

Master of Computer Applications

August 2025 - May 2027

SKILLS

Programming Languages: *Java | JavaScript | Typescript | Bash | Python*

Tech/Tools: *Git | HTML | CSS | NextJs | ReactJS | NodeJS | ExpressJS | MongoDB | Postgres | Prisma | Postman | REST APIs | Linux/Unix | Docker | Kubernetes | AWS | GCP | Terraform | CI/CD | Jenkins*

PROJECTS

CompileX

Dec 2024- Feb 2025

Developed a real-time collaborative code editor enabling seamless multi-user coding and debugging capabilities.

- Engineered real-time communication infrastructure using Socket.io, enabling instant **multi-user collaboration and code synchronization**
- Architected a **secure room-based authentication system**, implementing robust privacy controls and access management
- Orchestrated integration of CodeMirror editor and Judge0 compiler, enabling multi-language code execution
- Implemented a comprehensive containerization strategy using Docker, creating multi-stage builds and optimizing image sizes
- Skills:** Socket.io, Real-time Systems, Authentication, CodeMirror, Judge0, Collaborative Features, Security Implementation, Docker, Rest API

CodeScan AI

Mar 2025- May 2025

Developed an AI-powered platform to analyze GitHub repositories and generate structured insights

- Architected an automated system for comprehensive repository analysis, delivering structured insights into code organization and functionality
- Integrated Gemini API for intelligent code summarization, improving developer onboarding by **50%**
- Addressed the challenge of understanding unfamiliar repositories by providing instant, **AI-driven analysis to support developers, researchers, and code reviewers**.
- Automated build & deployment pipelines with containerization for consistent reliability
- Skills:** React, TypeScript, Gemini AI, API Integration, LLM Integration, CI/CD, Docker

AI Code Review Bot

Jun 2025 - Aug 2025

Built an AI-powered GitHub Action that automatically reviews pull requests, **cutting manual review time by 60%**

- Designed intelligent filtering to focus reviews on meaningful code changes, **reducing false positives and noise**
- Engineered a production-grade architecture with **robust error handling, validation, and observability**
- Enhanced developer productivity with **clear, structured AI feedback** that improved code quality and accelerated merges
- Skills:** GitHub Action, Node JS, TypeScript, Gemini API

WORK EXPERIENCE

Full Stack Developer

May 2025 - June 2025

Symbols

- Developed and tested dynamic web projects such as landing pages, SaaS components, and micro-widgets.
- Supported QA and platform testing, identifying bugs, providing detailed feedback, and collaborating with developers to resolve issues efficiently.
- Proposed and integrated new features and UI/UX enhancements, resulting in improved user engagement and customer satisfaction.
- Collaborated with product and design teams to ensure technical solutions aligned with business goals, contributing to the successful delivery of key project milestones.

LLM Benchmark Task Developer

January 2026

AirDawg Labs

- Designing complex, multi-step CLI tasks mirroring real-world production engineering workflows, leveraging Bash scripting and Docker for reproducible agent evaluations.
- Collaborated in structured code review processes, contributing to repository maintenance, system monitoring, and optimization of DevOps tasks for LLM benchmarking.
- Developed gold-standard reference solutions in Python and shell scripts, ensuring deterministic outputs and high-fidelity benchmarks for advanced LLM performance testing.

CERTIFICATION

- IBM Applied DevOps Engineering- Specialization
- Architecting with Google Compute Engine Specialization
- McKinsey - Take You Forward