Garvit Budhiraja

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GitHub: github.com/garvit-exe/ | Portfolio: garvitbudhiraja.vercel.app

Education

Vellore Institute of Technology | Sehore, Madhya Pradesh | Expected Graduation: May 2026
Bachelor in Computer Science and Engineering | **Cumulative GPA: 8.53**
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Machine Learning Fundamentals

Projects

Smart Contract-Based Land and Property Registration System (https://scblrsub.vercel.app)
- Developed and deployed Ethereum smart contracts in Solidity for secure, government-verified property registration, ownership transfer, and immutable transaction tracking, enabling transparent and fraud-resistant land records.

Algorithm Visualizer (https://visualizeralgorithm.netlify.app)
- Designed and implemented an interactive web application in JavaScript, HTML, and CSS to visualize multiple sorting algorithms (Selection, Bubble, Insertion, Merge, Quick, Heap) with real-time, animated DOM updates and user-adjustable parameters (array size, speed).

Comprehensive APIs Repository (https://common-apis.vercel.app)
- Built a modular Python API platform using FastAPI, delivering a wide range of utility endpoints (text manipulation, data transformation, developer tools, fun generators) with clean routing and robust input validation.

Command-Line Git Repository Activity Tracker (https://github.com/garvit-exe/git-local-stats)
- Developed a cross-platform command-line tool in Go to scan local directories for Git repositories and aggregate contributor commit statistics over a customizable time window.
- Leveraged concurrent file system traversal and the go-git library to efficiently parse commit histories, outputting contribution heatmaps and supporting flexible user email and folder inputs.

Basic grep Tool (https://github.com/garvit-exe/crap)
- Created a performant, customizable command-line text search tool in Rust, replicating and extending grep functionality with advanced regular expression support, syntax-highlighted output (termcolor), and efficient I/O handling.

Skills

- **Programming Languages:** C++, Java, Python.
- **Web Development:** React, Express, Flask, Tailwind, Next.js, Node.js.
- **Database Management:** MySQL, MongoDB, PostgreSQL, SQLite3.
- **Tools & Technologies:** Git, AWS, Linux, Shell Scripting, Postman, Cronjobs, Tableau, Docker.
- **Methodologies & Paradigms:** Software Development Methodologies (Agile, Scrum, Version Control (Git Workflow)), Architectural Paradigms (RESTful APIs, Microservices).
- **Soft Skills:** Teamwork, Problem-Solving, Communication, Leadership, Time Management.

Achievements

- **Leadership & Extracurricular Activities:** Co-Lead, Tech Team – Bit By Bit Club: Managed a team of 15+ members to successfully organize over 10 coding workshops and hackathons.
- Solved 150+ Data Structures & Algorithms problems on LeetCode.