

Kairav Bhatia

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EDUCATION

Vivekananda Institute Of Professional Studies

New Delhi, India

B.Tech in Computer Science and Artificial Intelligence; CGPA: 7.6/10.0

July 2022 – August 2026 (expected)

DAV Public School CBSE; Class X: 81% (2020), Class XII: 83% (2022)

SKILLS

Languages: Python, C++, Go, JavaScript

Frameworks and Tools: Node.js, Express.js, Flask, RESTful APIs, MySQL, MongoDB, React.js

Infrastructure and OS: Bash, Unix, Fedora, Debian, Docker, Git, GitHub, Nginx, Linux VPS

Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, System Design

EXPERIENCE

• Devnovate.co

Remote

Software Engineering Intern

May 2025 – October 2025

- **Server Deployment and Security:** Deployed a full-stack app on a hardened Debian server using Nginx and PM2, with secure SSH, strict firewall rules, and enforced user permissions, resulting in zero unauthorized access.
- **Uptime and Monitoring:** Maintained 99.997% uptime (less than 1 min downtime per month) for devnovate.co in July 2025, and automated resource tracking to eliminate manual monitoring while ensuring stable performance.
- **Performance and Scalability:** Supported 1,000+ users in the first week with consistently under 300ms server response times, and reliably handled 100k+ users in total.

• Self Employed

Remote

Freelance Software Engineer

May 2024 – May 2025

- Shipped software products to **10+ businesses and individual clients**, owning projects end-to-end from design to deployment. Built secure web apps, Linux servers, and APIs, delivering stable and maintainable production systems.

PROJECTS

- **Scalable URL Shortening Service** — Go, APIs, Concurrency, Rate Limiting, Caching, Load Testing [Link](#)
 - Built a backend URL shortening service in Go with clean REST APIs and collision-safe short code generation.
 - Implemented concurrency-safe request handling with token-bucket rate limiting, in-memory caching for hot URLs, persistent storage, and health/readiness endpoints to improve performance and reliability.
 - Stress-tested the service under concurrent load to measure throughput and latency, identified bottlenecks, and optimized request handling based on observed performance metrics.
- **Linux Command-Line Assistant Tool** — Go, Bash, GNU-Linux, Unix [Link](#)
 - Built a Go-based Linux CLI tool that converts natural language queries into shell commands, provides clear explanations, supports flag-based controls, monitoring mode, and maintains command history logging.
 - Implemented safety-first execution logic including dry-run mode, explicit user confirmation, command validation, and warnings for potentially destructive commands to ensure controlled and reliable interaction with Unix systems.
- **Virtual Banking System** — MongoDB, Node.js, Express.js, JavaScript [Link](#)
 - Built a banking backend system with user account creation, transaction history, fund transfers, and role-based dashboards for users and administrators, executed via RESTful APIs and structured data models.

COMPETITIVE PROGRAMMING

- **Solved 600+** algorithmic problems across [Leetcode](#), [Codeforces](#), [TakeUForward](#), and other online platforms.
- Achieved competitive programming ratings: Leetcode (max 1591), Codeforces (max 1033).

ACHIEVEMENTS

- Completed **Harvard CS50x** (Introduction to Computer Science), including 10 problem sets and one final project.
- **1st place** in web technologies quiz competition at VIPS-TC, Pitampura.
- **1st place** in debugging competition at Amity University, Noida.
- Reached highest competitive league on Chess.com.
- Leveraged Linux as a daily driver since 2021 for development, experimentation, and community contribution.
- Maintained Github and Stack Overflow profiles since 2018 and 2019 respectively.