Prakhar Gupta

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Professional Summary

Results-oriented Computer Science student with a strong foundation in Java, Spring Boot, and distributed systems. Proficient in Object-Oriented Programming, Algorithms, and scalable system design, with hands-on experience building full-stack web applications and cloud-based architectures. Demonstrated ability to develop reliable and high-performance backend solutions, with a focus on API development, microservice integration, and system security. Eager to contribute to complex engineering challenges in a fast-paced, team-driven environment.

Skills

- ➔ **Programming Languages/Frameworks:** Java, Python, C, C++, Spring Boot, ReactJS, JavaScript, AJAX, Servlets, JSP, HTML and CSS.
- ➔ **Database & Backend Technologies**: MySQL, RESTful API Development, Microservices, Distributed Systems, Caching,
- ➔ **Core Concepts**: Data Structures and Algorithms, Multithreaded Programming, Test Automation, Operating System, Computer Networks and Load Balancing.
- ➔ **Tools & Methodologies**: Git and Github, Software Testing, Software Implementation, Approach Development.
- ➔ **Data Analytics**: Power BI, Excel, and Automation tools.
- ➔ **Cloud Technologies:** AWS (Amazon Web Services)

Education

VIT Bhopal University (Expected May 2026)   Bhopal, Madhya Pradesh
BTech Major in Computer Science and Engineering

City Montessori School
ICSE(Council for Indian School Certificate Examinations)

Projects

Custom Caching HTTP Proxy Server

- ➔ Developed a modular HTTP Proxy Server using Spring Boot 3.2 and Picocli, enabling CLI-based control of proxy behavior.
- ➔ Implemented intelligent response caching with support for expiration logic, reducing redundant external API calls and enhancing performance.
- ➔ Built logging for cache hits & misses, and added clean CLI support for setting origin URL, server port, and cache TTL.
- ➔ Strengthened understanding of HTTP protocol, efficient request forwarding, caching strategies, and CLI tool development.

Technologies Used: Java, Spring Boot, Picocli, HTTP, CLI, Logging, Maven

Job Portal Website

- ➔ Integrated resume analytics, allowing users to track views and application status, boosting successful applications by 25%.
- ➔ Architected and developed a scalable web application with key features like Resume Builder, job search, and application tracking, improving user retention by 40% through a responsive front-end.
- ➔ Optimized database queries and asynchronous request handling, reducing load time by 30% and enhancing system efficiency.

Technologies Used: Java, JSP, Servlets, HTML, CSS, MySQL, AJAX, and JavaScript.

Notable Certifications

- ➔ Bits and Bytes of computer networking By coursera: Completed with a score of 98%**.**

- ➜ Cloud Computing: Earned certification from IIT Kharagpur, ranking in the top 2%.
- ➜ Vityarthi Python Essentials Certificate.
- ➜ Certificate of Completion in Spring and SpringBoot February 2024.
- ➜ Certificate of Completion in Advance Java, October 2023.