

Rishab Das

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 🌐 iam-rishabh </> Codeforces </> CodeChef

Professional Summary

Dedicated Software Engineer with hands on experience in software and product development using C++, Python, JavaScript, and full-stack web technologies. Skilled in designing scalable, optimizing performance using data structures and algorithms (DSA), and solving complex problems in distributed systems, graph operations, and HPC initiatives. Experienced in system design for efficient task scheduling, web rendering, and automated testing, with a strong focus on multithreading, API integration, cross-browser compatibility, and systems/network fundamentals.

Experience

Software Development Engineer Intern

Gujarat, India, Jan 2026

Twisha Technologies - Keyanna Technology – twishaatech.com [↗](#)

– Present

- Identified and optimized a performance bottleneck in Open5GS UPF metrics collection, reducing per-packet overhead and improving throughput under load.

Web Developer

Remote, March 2025 –

Dr. Vishal Sorathiya – sorathiyalab.com [↗](#)

May 2025

- Developed a responsive research portfolio website using React.js, focusing on UI/UX enhancements and real-time data integration for cloud-native solutions.
- Integrated Google Scholar API for synchronized publication data, utilizing RESTful services for efficient querying and data engineering.
- Optimized application performance with reusable components, lazy loading, and code splitting, achieving a 98% Lighthouse score in alignment with DevOps monitoring practices.

Web Developer (Intern)

Vadodara, Gujarat, Oct

Parul University – SCOPE — Parul University [↗](#)

2023 – Feb 2024

- Built university website features using MEAN Stack, with emphasis on front-end optimization and system design for user authentication in web applications.
- Implemented RESTful APIs for dynamic content delivery, improving load times through efficient data structures and databases.
- Enhanced user experience with CSS3 animations and responsive design principles, supporting knowledge sharing and application modernization.

Software Test Engineer

Remote, Dec 2023 – Feb

Smartinternz – Katalon

2024

- Automated testing for web applications using Selenium WebDriver and Katalon, ensuring cross-browser compatibility (Chrome, Firefox, Safari, Edge) and functional programming standards.
- Developed regression test suites and functional tests for REST API endpoints, reducing manual testing time by 60% through automated system health checks.
- Implemented parallel test execution to optimize efficiency in fast-paced development environments, contributing to recruitment and team growth activities.

Projects

Open5s SGWC PAA IE Length Validation Patch

[Github](#) [↗](#)

- PAA IE Length validation patch to prevent remote DoS attack and SGWC crash.

Custom Web Browser Implementation

github.com/iam-rishabh [↗](#)

- Built a lightweight web browser in C++ with custom HTML/CSS parsing, DOM tree construction, and HTTP request handling for web crawling.

- Optimized rendering pipeline for 40% faster page loads, integrating multithreading for concurrent operations and systems/network fundamentals.
- Demonstrated system design principles in web applications and efficient resource allocation, enabling digital transformation features.

Distributed Task Scheduler

github.com/iam-rishabh 

- Designed and implemented a multithreaded task scheduling system in C++ using priority queues and graph-based dependency resolution for workload distribution in scalable infrastructure.
- Optimized thread synchronization and processing times, demonstrating strong DSA skills in real-world system design and cloud infrastructure concepts.
- Achieved efficient resource management for handling complex dependencies in distributed environments, supporting AI-driven solutions.

CUDA-Accelerated Graph Traversal

github.com/iam-rishabh 

- Implemented a parallel BFS and DFS traversal algorithm in CUDA C++ for processing massive graphs on GPU, handling irregular data access patterns with custom kernel launches.
- Optimized for memory coalescence, warp divergence reduction, and dynamic workload balancing using atomic operations, shared memory caching, and multi-stream execution, achieving up to 15x speedup on graphs with millions of nodes compared to CPU implementations.
- Integrated error handling for CUDA API calls, managed host-device memory transfers efficiently, and demonstrated advanced parallel computing techniques alongside mathematical graph theory for scalability in high-performance applications.

Automated Web App Testing Suite

github.com/testing 

- Created an automated testing framework in JavaScript using Selenium WebDriver for cross-browser and parallel execution in DevOps practices.
- Supported functional testing of web applications, reducing overall testing time through optimized scripts and coding based on given designs.
- Integrated with CI/CD pipelines for seamless regression testing in agile workflows, promoting knowledge sharing and blog writing on testing methodologies.

Certifications

C++ **CodeChef:** codechef/c++ 

Technical Skills

Programming Languages: C++, Python, JavaScript, Java, TypeScript

Frontend Technologies: HTML5, CSS3, React.js

Backend & APIs: Node.js, Express.js, RESTful APIs, Python Flask

Tools & Technologies: Git, Selenium, MongoDB, MySQL, Katalon

Data Structures & Algorithms: Arrays, Linked Lists, Trees, Graphs, Dynamic Programming, Multithreading, System Design

Education

Parul University

2022 – 2026

B.Tech. Computer Science Engineering

- CGPA: 7.50/10.0
- **Relevant Coursework:** Data Structures & Algorithms, Web Development, Software Engineering
- **Competitive Programming:** Codeforces Newbie, CodeChef 1 Star