

ROUSHAN SINGH

Software Engineer

<https://leetcode.com/u/r-tron19/>,

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COMPETITION RANKS & REWARDS

- Global Rank: **64/24000** Leetcode Weekly 380, Jan 2024
- Global Rank **19** HackerEarth December Circuits 2023
- Global Rank: **204 / 7400** Google Kickstart Round B 2021
- Global Rank: **1 / 6300** Codechef May Long Challenge 2021
- Rank **1 / 200** Code N Drink IIIT RAIPUR coding challenge
- Global Rank **3** HackerEarth February Challenge 2021
- Class Rank **1** SOF Math Olympiad (10th and 11th grade)
- CAT 2022 **98.48** percentile

5 star @codechef, Top 0.85% @leetcode, Github: <https://github.com/github-roushan>

EMPLOYMENT HISTORY

CTO and Founder, ForgeOfCreation, Raipur

APRIL 2022 – PRESENT

- Worked with Many US Client (example: For Aurea on their Exinda Network Orchestrator as a C++ Hardware Consultant) as Tech Consultant
- Full Time GitHub Sorcerer. Currently Developing Game Engine With AI in Rust

Google LLM Engineer, Turing (Contract), Remote

APRIL 2024 – SEPTEMBER 2024

- Developed feature and did bug fixes for the internal AI Training tool using React and Next.js, utilized by multiple AI companies, (including Google, Meta, NVIDIA, OpenAI etc)
- progressively tested unreleased models with coding problems until failure and then wrote code from scratch to improve model understanding. Leveraged expertise in Lang Chain, machine learning, Unity, Rust, C++, golang, react, Node, NextJS and Flutter to tackle complex technical challenges.
- Helped model with college-level math problems answered by manually solving them to verify accuracy.
- Fixed model code for full stack applications based on user prompt history to produce the correct final output. Packaged the solution in a Docker container

My Code and response had a positive delta effect on model responses after training on my datasets.

Java, SpringBoot, C++, Rust, Golang, Python, Unittest, LangChain, Scapy, Tensorflow, scikit-learn Mockito, Junit, Typescript, Boost Library, SFML(C++) Library, MongoDB, neo4j, AWS, GCP, Firebase

Software Engineer I, Google, Hyderabad

SEPTEMBER 2022 – MAY 2023

- Developed various plugins for Gheco Forms, integrating them with gRPC.
- Collaborated with senior developer to launch the MatterSpace Outcome and Resolution feature.
- Added code to show proper badges on various steps of the outcome.
- Wrote test cases for features using Jasmine and JSWIRE.
- Root Cause analysis and resolution one Critical bug in UI testing within code

Java, gRPC, protobuf, Jasmine, JSWIRE, BOQ Web, soy files, Typescript

Software Development Engineer, Amazon, Gurgaon

OCTOBER 2021 – AUGUST 2022

Feb 2022 - Aug 2022 | Bangalore, Amazon Pay

- Worked on resolving complex issues with in front end on the Merchant SWIPE platform. Mitigated high-priority security risks for the peer team. Engaged in in-depth design discussions with the team to enhance system architecture. Wrote Integration tests for our packages.
- Addressed and resolved security vulnerabilities in the KYC package within critical timeline of 3 weeks

Oct 2021 - Jan 2022 | Gurgaon, Finance Automation

- Created a system to automate payroll calendar updates, taking full ownership of this critical task. Improved the payroll system by adding event aggregation for more efficient data processing.
- Conducted root cause analysis of a long-standing latency issue in the case management package and presented findings to a senior developer.
- Developed new payroll features for India and on boarded Germany with additional functionality.

Java, Design Patterns, Multi threading, Spring Boot, Junit, Mockito, AWS SDK, Selenium, Integ Testing, Internal Tools

Software Engineer, Navyug Infosolutions, Noida

JULY 2024 – OCTOBER 2024

- Designed a distributed architecture for bulk CSV uploads to AWS Keyspaces using multiple EC2 instances, reducing ETL time by 10x.
- Built an EMR notebook for automated data enrichment with self-provisioned clusters, cutting costs by 30% and boosting speed by 5x
- Led end-to-end design, documentation, regression testing, and code deployment as part of a team of three.

Python, MultiThreading, AWS, SSH, EMR, VPC, Networking, boto3 SDK, Desing Patterns

SKILLS

Python | C++ | Java | Backend | Docker | Git

Frontend | System Design | Distributed Systems

React | Typescript | Node | Golang | Testing

AWS | Tensorflow | LangChain | Scapy | GCP

Rust | Flutter | Firebase | Perl

COURSES

Distributed Systems | Into to Machine Learning, NPTEL

DeepLearning Specialization | AWS Cloud Technicals | Geometric Algorithms, Coursera

Network Engineering | Graph Theory | Maths for ML, Udemey

OS | Computer Architecture | Automaton Theory | Computer Networks | Compiler Design

EDUCATION

B.Tech, National Institute of Technology Raipur

AUGUST 2017 – MAY 2021