

ROUSHAN SINGH

FullStack + ML

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

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COMPETITION RANKS & REWARDS

- Global Rank: **91/34700** Leetcode Biweekly 163, Aug 25 | **88/35600** Leetcode Weekly 464, Aug 25
- Global Rank: **64/24000** Leetcode Weekly 380, Jan 2024
- Global Rank: **204 / 7400** Google Kickstart Round B 2021
- Global Rank: **1 / 6300** Codechef May Long Challenge 2021
- Class Rank **1** SOF Math Olympiad (10th and 11th grade)
- CAT 2022 **98.48** percentile

5 star @codechef, Top 0.73% @leetcode, Github: <https://github.com/github-roushan>

EMPLOYMENT HISTORY

CTO and Founder, ForgeOfCreation, Raipur

APRIL 2023 — PRESENT

- Worked as tech Consultant for **Aurea** on their *Exinda Network Orchestrator* as a **C++ Hardware Consultant**.
- Active *GitHub contributor*, exploring diverse codebases with multiple tools and languages.
- Currently developing **RustCache** (github.com/ForgeOfCreationX/RustCache), a Rust-like database with ML-driven features like *intelligent eviction*, *native embedding index for ANN search*, *adaptive query routing*, and *self-tuning performance optimization*.

Python Software Engineer, Mercor (Temp Contract), Remote

JUNE 2025 — AUG 2025

- Created **Dockerized** environments with the help of script to ensure consistent execution of project tests with **Pytest**.
- Utilizing **pre-release** AI models to diagnose and resolve issues across multiple GitHub repos.
- Delivered **rubric-based feedback** on model behavior and code quality, providing structured evaluations that enables actionable improvements making models better after each iteration.

Health and Wellness

Transitioned from night shift work (PST hours) to prioritize health and invest in career growth by focusing on Machine Learning, MLOps, AWS, and large-scale system design; completed courses in distributed systems and prepared for interviews with Amazon, Google, Uber, and Atlassian.

Google LLM Engineer, Turing (Temp Contract), Remote

APRIL 2024 — SEPTEMBER 2024

- Worked on the internal AI Training tool (React, Next.js) used by major AI companies
- Tested unreleased models on prompts where older versions failed, providing verified solutions for general prompts and generating ML-specific solutions using LangChain with TensorFlow, scikit-learn, and other ML libraries in Google Colab for training and review.
- Authored detailed solutions for college-level math problems, improving model accuracy and reliability in solving complex quantitative tasks.
- Debugged and corrected non-functional model-generated code using multi-turn prompt histories; rebuilt solutions from scratch, hosted on Replit for verification, and packaged in Docker to support ML evals

Java, SpringBoot, C++, Rust, Golang, Python, Unittest, LangChain, Tensorflow, sklearn

Mockito, Junit, Typescript, C++ Boost, SFML(C++), MongoDB, neo4j, AWS

Software Engineer I, Google, Hyderabad

SEPTEMBER 2022 — MAY 2023

- Developed plugins for Gheco Forms with gRPC integration
- Collaborated with senior developers to launch the MatterSpace Outcome and Resolution feature.
- Added Outcome step badges to show status of outcomes.
- Wrote test cases for features using Jasmine and JSWIRE.
- Resolved a critical UI testing bug through root cause analysis.

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

- Resolved front-end issues on the Merchant SWIPE platform by improving UI consistency and implementing regex-based validations to prevent invalid form submissions.
- Wrote Integration tests for our packages. Collaborated in in-depth design discussions with the team to enhance overall system architecture and scalability.
- Resolved critical Security Assurance issues in the KYC package within 3 weeks by upgrading packages and implementing code changes to ensure pipeline stability.

Oct 2021 - Jan 2022 | Gurgaon, Finance Automation

- Created a system to automate payroll calendar updates, taking full ownership of this critical task.
- Improved Payroll System by adding event aggregations for more efficient data processing
- Added Outcome step badges to show status of outcomes
- Built payroll features for India and enabled Germany's payroll onboarding by adding secure export of processed payroll data to custom servers (S3 or SSH).

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

Software Engineer, Navyug Infosolutions, Noida

JULY 2021 — OCTOBER 2021

- 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, Design Patterns

SKILLS

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

React | Typescript | Node | Golang | Testing

Rust | Jax | OpenCV | XgBoost

Frontend | System Design | Distributed Systems

AWS | Tensorflow | LangChain | Pytorch | Cuda

COURSES (MOOCS)

Distributed Systems | Advanced Distributed Systems | Intro to ML, NPTEL
 Deep Learning Spec. | AWS Cloud Technicals | Geometric Algorithms, Coursera
 OS | Computer Architecture | Database Internals | Computer Networks
 ML A-Z | Graph Theory | Maths for ML | Complete Data Science | Master Redis, Udemy

EDUCATION

B.Tech, National Institute of Technology Raipur

AUGUST 2017 — MAY 2021

