

# Rejoan Sardar

Pre-final | Computer Science and Engineering | Lovely Professional University

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## Experience

### GOOGLE SUMMER OF CODE 2024 - NODE.JS REPL | Open Source Development

May 2024 - Aug 2024



Javascript | node.js | developer tools | cli | Repl | Interactive Interpreter

- The stdlib REPL enhances Node.js with features like syntax highlighting, fuzzy auto-completion, and tools for statistical computing, aiming to improve on the standard Node.js REPL.
- It incorporates enhancements for better data visualization and interaction, including workshops to match capabilities of systems like IPython and Julia.

Solved 500+ questions of DSA, Global rank 3892 on interviewbit.

### Stdlib | Open Source Developer

May 2023 - Present



C | javascript | Numerical Computing · REPL Development

- Enhanced REPL for NodeJS:** Added syntax highlighting, fuzzy auto-completion, and statistical tools to the Node.js REPL, elevating it to compete with IPython and Julia. May 2024 - Sep 2024
- Mathematical Functions:** Built 150+ functions (e.g., `erf`, `acos`, `log`) in JavaScript and C, boosting computational efficiency
- High-Performance Distributions:** Developed 35+ distribution functions with 10,000x speedup over SciPy, enabling real-time statistical analysis. Sept 2024

## Technical Skills and Relevant Coursework

**Skills::** Full Stack Web, App Dev, DSA, Machine Learning, Data Engineering

**Languages:** Python, C++, PySpark, Dart, Java, Javascript, MySQL | **Frameworks::** Django, Flutter, ReactJS, NodeJS, Spring

**Boot | Miscellaneous:** Git, Github, Firebase, REST-API, Google Cloud **Libraries:** Pandas, NumPy, Matplotlib, Seaborn,

Sklearn, PyTorch, Keras **Computer Science:** Computer Networks, Cryptography, Cyber Security, Data Structures and Algorithms, Databases, Operating Systems, Pattern Recognition and Machine Learning.

**Mathematics:** Probability Statistics & Stochastic Processes, Mathematics for Computing

## Project

### Enhanced Node.js REPL for Advanced Numerical and Scientific Computing

developer tools | cli | Repl | Interactive Interpreter

May 2024 - Aug 2024



- Implemented a suite of enhancements to the Node.js REPL, including fuzzy auto-completion, syntax highlighting, tabular data visualization tools, bracketed-paste support, multi-line editing, custom keybindings.

### Implementation of Special Mathematical Functions

C | javascript | node.js

May 2023 - Apr 2024



- Developed and implemented over 150+ special mathematical functions in JavaScript and C, including `erf`, `erfinv`, `acos`, `asin`, and `log`, to enhance computational efficiency in numerical libraries.

## EDUCATION

### Lovely Professional University

Aug 2022 - July 2026

Bachelors of Technology in Computer Science and Engineering

Current CGPA: 6.5/10.0

### Nimpith Ramkrishna Vidyabhavan

Jan 2009 - April 2021

Secondary & Higher Secondary Education

HSC: 80% · SSC: 75.71 %