

Rudra Sarkar

Portfolio: <https://rds8rds.github.io>

Github: <https://github.com/rds8rds>

Leetcode: <https://leetcode.com/rds8rds>

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ACADEMIC CREDENTIALS

- Rajshahi University of Engineering and Technology** Rajshahi, Bangladesh
Bachelor of Science - Computer Science and Engineering; GPA: 3.13/4.0
Jan 2017 - Dec 2023
Key courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

RESEARCH INTERESTS

- Deep Learning, Machine Learning, Genetic Algorithms, Image Processing, Theory of Computation, Distributed Systems, Game Development, Software Engineering:**

PROFESSIONAL EXPERIENCE

- Neural Semiconductor Limited** Dhaka
Software Engineer (Full-time) August 2024 - Present
 - Testsprint360.com:** Testsprint360 is a industry leading software automation tools, I contributed to its website's subscription managing project as well as its intermediate back-end processor. Implemented various types of algorithms, database designing, CI/CD pipelines. **Tech:** Springboot, Postgres, RabbitMQ
 - HRM-ERP Backend:** Developing & managing industry-standard HRM-ERP Backend with micro services for functionalities like payroll, attendance, and food management also building APIs for front-end applications backed by relational database like PostgreSQL. **Tech:** Springboot, Postgres, RabbitMQ
- Techjays** Remote
Intern February 2024 - May 2024
 - Drupal Module Development:** Learned to create custom modules that extend and enhance the functionality of a Drupal website like adding new content types, APIs, new custom forms etc.
 - Build Web Applications with Ruby on Rails:** Developed Content Management System following client requirements with Ruby on Rails.

SKILLS SUMMARY

- Languages:** JAVA, Python, C++, JavaScript, SQL, Bash
- Frameworks:** TensorFlow, Keras, Spring Boot, Django, NodeJS
- Tools:** GIT, PostgreSQL, MySQL, SQLite
- Platforms:** Linux, Web, Windows, Raspberry, AWS, GCP
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

SELECTED PROJECTS

- CRUD Back-end API:** Developed a back end CRUD API with JavaScript, Node, implemented user authentication, data validation, optimized database interactions using PostgreSQL
- Graphical Projects with p5 Library:** I implemented thought-provoking simulations using p5 Library like game of life, sand simulation, simulating mathematical equations
- My Portfolio:** My portfolio to present my works, my current interests & objectives

RESEARCH EXPERIENCE

- Undergraduate Thesis: Plant Species Detection with Convolutional Neural Network:** Convolutional Neural Networks (CNN), are increasingly used for plant species identification due to their efficiency in feature detection from images. My proposed CNN model achieved 96% accuracy on the UCI ML Repository leaf image dataset, demonstrating its potential to assist botanists and support biodiversity conservation.

HONORS AND AWARDS

- Reaching top twenty percent of coders, at Leetcode.com
- Passed the Level-2: Fundamental Information Technology Engineer Examination (FE)
- Poster Presentation Champion, at "KUET Technival 2018"
- Participant at regional Math Olympiad, Rajshahi
- Participant, at Power & Energy Hackathon 2018 [worked on solar barges to produce clean electricity]

VOLUNTEER EXPERIENCE

- Senior Executive Member** RUET
Arranged carrier-related workshops and sessions impacting over 4000 students. May 2017 - Dec 2018
- Lead Graphic Designer at HULT Prize at RUET** RUET
Designing graphics, poster, workshop material for HULT Prize at RUET Jan 2018 - Dec 2018