

Nikhil Raj

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EDUCATION

Birla Institute of Technology and Science, Pilani – Hyderabad Campus

Oct 2020 – July 2024

Bachelor of Engineering (B.E.) Computer Science and Engineering

CGPA: 7.28/10 (5 semesters)

Courses: Data Mining using Python, Machine Learning, Cryptography, Data Structures and Algorithms in C++, Database Management System using SQL Plus & MySQL, Blockchain Technology, Computer Architecture, Operating Systems, Object-Oriented Programming in Java, Discrete Structures for computer science, Logic in Computer Science

LBS Senior Secondary School, Kota, Rajasthan

Apr 2018 – Apr 2020

Senior Secondary Education – Class XII & XI – CBSE

Board examinations percentage: 91.6%

PROFESSIONAL EXPERIENCE

Software Development Intern, Swecha, Telangana, India

Jun 2022 – Jul 2022

- Led a team of 11 interns and contributed to feature enhancement of the Pencil Box Application of BalaSwecha OS.
- Upgraded the BalaSwecha OS and worked towards integrating voice-based technology into the OS.
- Technologies: HTML, CSS, JavaScript, Node.js, GitHub, GitLab, Python

RELEVANT PROJECTS

Gym Management System

March - Apr 2022

- Developed a responsive web application to help in gym management.
- Features include slot booking, assigning a random buddy, and a community page.
- Technologies: HTML, CSS, JavaScript, Bootstrap, Tailwind CSS, Node.js, Express, HBS, MySQL

Stock Market Analysis

March - Apr 2022

- Developed a python notebook that predicted the future behavior of stocks based on their past behavior.
- Used Data Mining techniques such as Moving Average, Correlation Matrix, and Monte Carlo Algorithm.
- LSTM Machine Learning Model was trained to predict the future direction of a stock.
- Technologies: Python

Phonebook Management System

Feb - March 2022

- Developed a C++ application that allows creating, updating, inserting, and deleting phone numbers.
- Used unordered map data structure to achieve desired features.
- It uses Red-Black Tree to keep the names in a sorted order while not sacrificing the efficiency part.
- Technologies: C++ (DSA)

Crowdfunding Dapp

Nov – Dec 2022

- A crowdfunding application to raise funds for campaigns through ETH transactions on the Ethereum blockchain environment.
- Features include Create Campaign, statistics page, request for withdrawal page, and Smart Contract that automates the process.
- Technologies: HTML, CSS, JavaScript, React, Node.js, web3.js, Infuria API, Solidity, Metamask, Goerli test Network

Car Parking Solutions

Nov - Dec 2021

- Developed a web application with different dashboards for admin and user to book car parking areas.
- MySQL was used to fetch parking slot data that are available.
- Technologies: HTML, CSS, JavaScript, JSP, servlets, MySQL

TECHNICAL SKILLS

Programming Languages Proficient in: C++, C, Python | Familiar with: Java, JavaScript, Solidity

Development HTML5, CSS, Bootstrap, JavaScript, React, Node.js, PHP, SQL, SQL Plus, MYSQL, NoSQL, Git

Data Science NumPy, Pandas, Matplotlib, Keras, TensorFlow

AWARDS AND ADDITIONAL INFORMATION

- State Ranked 1 in International Mathematics Olympiad conducted by SOF. (Bihar) 2018
- State Ranked 3 in International Mathematics Olympiad conducted by SOF. (Bihar) 2017
- School Rank 1 for four consecutive years in International Mathematics Olympiad, SOF. (Bihar) 2015-2018