Aryan Singh

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SKILLS

Languages: C++, Java, Python, JavaScript, SQL
Technologies & Tools: AWS, MongoDB, Angular, ReactJS

WORK EXPERIENCE

Ministry of Electronics and information Technology, Delhi   May 2025 - July 2025
Intern

- Reduced the cost involved in running custom reports service by more than 80% by devising an automated system that identified and disabled reports with no usage or empty data.
- Assisted in the development of the e-portal for the employees where task will be assigned to the employee and employee can give updates on the task, and also the mangement of the employees
- Worked in National e-Governance division as a Backend Developer worked in building Flask Rest APIs in Python for Academic Verification using MongoDB API
- AWS, Node.js, MongoDB, MySQL, React

Ministry of Agriculture and Farmers welfare, Noida   December 2024 - Jan 2025
Intern

- Worked with the Ground officers to help the village Farmers to use the technology and learn about the new farming techniques which helped the in the Farming.
- Led a survey on ground level that the villagers are actually getting the benefits of schemes provided by the government or not.

EDUCATION

SRMIST,KTR,Chennai   Aug 2023 - Present
B.Tech in Computer Science and Engineering with Information Technology   *Current CGPA: 9.1/10*
Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Advance Data Structures and Algorithms, Information Retrieval,

PROJECT WORK

- **Word Lookup Dictionary (2024):** Developed a desktop software for online lookup of English words. Implemented efficient search of valid words using Trie data structure. Implemented spelling correction and auto-suggestion using edit distance algorithm. Used web scraping to get the data for online lookup. Python, BeautifulSoup.
- **Alternative-Routes in Road Networks (2025):** Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination in a given road network with randomly generated traffic. Implemented methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation. C++, OpenGL
- **DNA sequence compression (2025):** Applied Huffman Coding algorithm to compress different kind of DNA Sequence

AWARDS AND CERTIFICATES

- C,Oops,DSA cerification on coursera
- JAVA certification on NPTEL
- Oracle certification on Cloud Infrastucture
- Machine Learning and Deep Learning Specialization on NPTEL