B.U.Naveen Raj

Third Year (B.Tech)
Computer Science & Engineering
at Amrita ViswaVidhyapeetham

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Links

Github: **naveenraj208**
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Skills

OPERATING SYSTEMS
GNU/Linux(Kali,Ubuntu), Windows

LANGUAGES
C/C++, Java, Python, JavaScript, Shell Script,Frama-C,verilog,arm

FRAMEWORK
NextJS, Node.js, Web-development

DATABASES
MySQL, PostgreSQL, MongoDB, SupaBase

CLOUD ARCHITECTURE
AWS, Azure Cloud Hosting

ARTIFICIAL INTELLIGENCE
AI studio,NLP,Model development,ML models

OTHERS
Git, Vim, VSCode, Eclipse

Internships

MAY-AUG 2024 **Testrig Catalyst, UK**
Product Intern
- Developed front end for multiple sections of project using NextJS and integrated it to a supabase backend.
- Worked on developing API for ML Model for image to json/text files

JAN-JULY 2024 **Raju Educational Academy**
Technical website Architect
- Implemeted a multiuser website using Reactjs and mongoDB for database.

MAR 2024 **Saiwin Lights** **UX designer**
- Implemeted a UX app using NextJS.

Coursework

Data Structures and Algorithm,DAA
Database Management System,big data
Operating System
Discrete Mathematics
Probability,Random Processes and Statistics
Programming concepts
Theory of computation
User Interface Design
Computer Organization and Architecture

Projects

FEB-JULY 2024 **Flash Hospital Management System** **Java, DSA, DAA**
Utilized data structures such as doubly linked list, queue, binary search tree, hashing, random forest (decision tree), Dijkstra's algorithm, and Bellman-Ford algorithm to develop a robust project.

FEB-JULY 2024 **C-SHELL** **C Programming, Operating System**
Developed a c-shell terminal with alias command using C. Utilized various operating system and DSA concepts.

FEB-SEPT 2023 **Malayalam Manuscript to Text Conversion**
LSTM, Python
Developed a deep learning model using LSTM to convert Malayalam manuscripts to text, achieving an accuracy of 58%.

DEC 2023-JULY 2024 **Hospital Management System** **PHP, HTML, CSS, JS, XAMPP, MySQL, Python**
Built a full-stack development project over a MySQL database for a hospital management system with four user roles. Included an ML prediction model with a Gradio UI to predict if a person is prone to heart disease with high accuracy.

DEC 2023-JULY 2024 **Computer Network Malware Detection**
Python, LSTM, Gradient Boosting
Designed and implemented a plugin for macOS to detect malware in real-time using Gradient Boosting and LSTM models, providing reliable network security.

Positions/Volunteering

2019 - PRESENT **National Space Society** **Advisor and Member**
- Project Manager at spUN debate program for high school and University.

2023 - 2024 **BIOS Blr** **Forensic Team Member**
- Work with Kali Linux/Ubuntu for Solving Problems along Worked with tools like hex editors,wireshark and stegnography.

2023 - PRESENT **Microsoft Student Ambassador** **Beta Student Ambassador**
- President at Microsoft Ignite Students Club. Strongly building a community to help people progress in this and other technical parts.

Certifications

2024   DSA With Java - Apna College
2023   Skill vertex-Cloud Computing