Arya Shah

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Technical Skills

Languages: C, C++, Java, Python, JavaScript, HTML, CSS
Tools: Git, GitHub, Bash, REST, RESTful APIs
Databases: MongoDB, MySQL, PostGreSQL, Oracle DB
Frameworks: React.js, Node.js, Express.js, Spring Boot
Cloud Technologies: Amazon Web Services

Projects

Artistic Harmony | HTML, CSS, JavaScript, Python, Flask, Machine Learning
- Developed a machine learning system that leverages various models to generate images and recommend songs, demonstrating advanced capabilities in creative Artificial Intelligence applications.
- Engineered a fully responsive website using HTML, CSS, and JavaScript, seamlessly integrated with Flask; enhanced user engagement metrics by 40% through interactive visualizations of machine learning model outputs.
- Optimized model performance and user interface through iterative testing and refinement, ensuring high-quality image generation and accurate song recommendations.

Project Vigilance | Leaflet.js, JavaScript, HTML, CSS, GeoJSON
- Engineered a dynamic, web-based platform to visualize and analyze nationwide crime data, enhancing public awareness and providing insights into regional safety.
- Leveraged Leaflet.js to render geospatial crime data, plotting thousands of incidents on an interactive map of India with custom markers and pop-ups.
- Implemented robust filtering mechanisms allowing users to dynamically sort and analyze data by crime type and geographical region, resulting in over 3,000 user interactions.

Synapse | React.js, Node.js, WebRTC, Socket.IO, Express.js, MongoDB
- Architected a full-stack, peer-to-peer video communication application, utilizing WebRTC to establish low-latency, real-time video and audio streams between users.
- Orchestrated real-time signaling for session negotiation and instant messaging using Socket.IO, creating a seamless and interactive user communication experience.
- Designed and integrated a complete user management system featuring secure authentication and a social connection model (friend requests), backed by a MongoDB database.

Certification Courses

NPTEL - Cloud Computing ↗
The Bits and Bytes of Computer Networking ↗
DevOps, Agile and Design Thinking Certificate ↗
AWS Solutions Architect - Associate Certificate ↗

Education

Vellore Institute of Technology Bhopal University	2022 – 2026
Bachelor of Technology - Computer Science and Engineering	Bhopal, India
CGPA: 8.42	

Maharaja Agrasen Vidyalaya	2020 – 2021
12th (PCM) - CBSE	Ahmedabad, India
Percentage: 82.8%	