

Nalin Vijayvargiya

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Summary — Third-year B.Tech Computer Science student at SRMIST with a strong foundation in full-stack web development, mobile app development, and emerging technologies like AI/ML and IoT. Proficient in React.js, Flutter, Python, SQL, and Machine Learning. Experienced in building real-world applications with clean UI/UX, scalable backends, and smart automation. Enthusiastic about solving real problems through technology, with proven project experience and recognition in national-level hackathons.

Skills

OS: Windows, Ubuntu
Tools: GitHub, Git, Replit, Heroku, Vercel, VS Code, Eclipse, PyCharm, Arduino IDE
App Dev: Flutter, Dart
Web & DB: HTML, CSS, React.js, TailwindCSS, PostgreSQL, MySQL, MongoDB, Flask, Firebase, Node.js, Express
AI/ML Tools: PyTorch, TensorFlow, Keras, OpenCV, Scikit-learn, NLTK, Pandas, NumPy, Matplotlib, Seaborn
IoT & Devices: Arduino, ESP32
Programming: C, C++, Java, Python, JavaScript, Dart

Experience

IEEE Computer Society SRMIST

Oct 2024 – Present

Web Development Team

- Collaborate with a diverse team of developers to design and implement web solutions for the IEEE Computer Society website, enhancing user experience and functionality.
- Utilize React and Tailwind CSS to develop responsive web pages and maintain visual consistency across platforms.
- Participate in brainstorming sessions to propose innovative features, improving overall site engagement.
- Contribute to the documentation of project processes and code standards, facilitating knowledge sharing within the team.
- Followed version control best practices using GitHub; regularly pushed code, reviewed PRs, and participated in collaborative development workflows.

Education

SRM Institute of Science and Technology, Kattankulathur

Aug 2023 – Present

Bachelor's of Technology (B.Tech) in Computer Science and Engineering

CGPA: 9.4

Till the Fourth Semester

Certifications & Courses

- GitHub Foundations - GitHub
- An Introduction to Programming the Internet of Things (IOT) - University of California, Irvine
- Introduction to Object-Oriented Programming in C++ - University of London
- Programming for Everybody (Getting Started with Python) - University of Michigan
- Database Structures and Management with MySQL - Meta
- Python Data Structures - University of Michigan
- C, C++, Python and Ruby Programming - Udemy
- Python (Basic) - HackerRank
- Workshop: Internet of Things 101 - IEEE SRM Student Branch

Badges

- GitHub Foundations
- AWS Academy Graduate - AWS Academy Cloud Foundations
- AWS Academy Graduate - AWS Academy Machine Learning Foundations
- HackerRank Badges - C, C++, Python, Problem Solving

Projects

Emotion Detection – Facial Emotion Classifier (FER2013 + EfficientNet)

- Built a CNN-based emotion recognition model using FER2013 and EfficientNet, achieving multi-class prediction with real-time inference via OpenCV.

Fake News Detection – BERT-Based News Classifier

- Fine-tuned BERT on a labeled news dataset to classify articles as fake or real using NLP techniques and transformer-based embeddings.

TaskVerse - Organize, Prioritize, Conquer

- Built a full-stack task management app using React (frontend) and Node.js + Express (backend), with JWT authentication and MongoDB integration. Implemented RESTful APIs and animated UI components for seamless UX.

RoomiePay - Smart Expense Management for Roommates

- Developed a real-time expense-sharing platform using React.js, MySQL, and Python backend. Designed normalized schemas and created reusable UI components for efficient group management and monthly balance resets.

SmartQueue - Intelligent Task Prioritizer

- Created a productivity-focused task prioritizer using React, integrating algorithms like 0/1 Knapsack and Merge Sort with visual UX enhancements and accessibility features.

VibeOut - Emotion-Based Workout Assistant

- AI fitness assistant using React, FastAPI, facial and voice emotion recognition, and GenAI-based personalized workouts and motivation.

DishCovery - Your Personal Recipe Explorer

- Developed a recipe discovery frontend app using React, consuming REST APIs with responsive design and intuitive search and save features.

OnBoardX - Where Tech Meets Road Safety

- IoT-based vehicle monitor using ESP32, Raspberry Pi, FastAPI, and Firebase with accident prevention ML and real-time alerts via Twilio and EmailJS.

FastForex - Real-time Currency Converter

- Flutter app with OpenExchangeRates API, offline mode, trend charts, conversion history, and favorite currencies.

Scandroid - Smart Document Digitizer

- Mobile document scanner with ML-powered OCR, secure biometric access, smart tagging, offline storage, and intelligent search capabilities for paperless document management, using Flutter.

Survivor's Grid

- React game simulating OS deadlock concepts through turn-based resource management on a dynamic 4x4 grid.

Swingler - Bridging Job Seekers & Employers

- Java Swing + MySQL job portal for users to apply to jobs and companies to post listings in a desktop interface.

Traveller App - Explore, Share & Review Destinations

- Java Swing app with MySQL backend for discovering and reviewing travel spots, supporting location-based exploration.

Currency Convex - Simple & Offline Currency Converter

- Lightweight Tkinter app in Python using JSON-based offline exchange rates for currency conversion.

Additional Information

Languages

- English
- Hindi
- German

Awards/Activities

- Secured a position among the top three teams in the **REDBULL BASEMENT HACKATHON**, showcasing innovative solutions and technical expertise
- Selected among the top 6 teams across India for the national-level hackathon. Developed an innovative tech solution and secured 2nd Runner-Up in **ENDURVERSE'25**
- Qualified the Internal Round for **SMART INDIA HACKATHON - 2024**