

VARUN GOPINATH

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Full Stack Developer

Motivated and detail-oriented Full Stack Developer with a strong foundation in Computer Science Engineering and an Ontario College Certificate in Web Development. Proficient in designing and building scalable, user-friendly web applications using modern technologies, including React.js, Node.js, Express.js, and relational/non-relational databases like MongoDB and MySQL. Skilled in writing clean, efficient, and maintainable code, with a focus on delivering exceptional user experiences and robust backend systems. Experienced in utilizing version control systems such as Git and deploying applications on cloud platforms like AWS and Docker. Adept at problem-solving, collaborating with cross-functional teams, and continuously learning emerging technologies to stay ahead in the fast-evolving tech landscape. Committed to contributing to innovative projects and driving the success of a forward-thinking organization.

Education

Conestoga College, Kitchener, Canada, Post Graduate Diploma in Web Development, (GPA: 3.21), Sep 2023 - Dec 2024

Mangalam College of Engineering, Kottayam, India, Bachelor of Technology in Computer Science and Engineering, (GPA: 7.21), Jun 2017 - Jul 2021

Projects

PlanEat, [Link](#)

Aug 2024 - Dec 2024

- Developed a platform designed for meal planning, grocery management, and personalized recipe recommendations. Integrated Google Calendar for seamless scheduling, allowing users to plan meals and track grocery lists effectively.

Utilized Firebase for real-time updates, enabling collaborative meal plans and grocery tracking across multiple devices. Built using React.js, Node.js, Express.js, MongoDB, and Firebase for a modular and scalable architecture, with deployment on Netlify and Render.

Key features include family-wide meal scheduling, pantry inventory management, and seasonal recipe suggestions tailored to user preferences.

Resolved CORS issues, implemented real-time synchronization, and streamlined Google Calendar integration to ensure smooth functionality.

Significantly reduced the effort of managing household meals and groceries, improving efficiency and collaboration for busy families.

Key Technologies: React.js, Node.js, Express.js, Firebase, MongoDB, Google Calendar API, Netlify, Render.

Automated Attendance System Based on Face Recognition & Live Video Processing

Apr 2020 - May 2021

- Developed an Automated Attendance System using face recognition technology and real-time video processing to streamline attendance marking, achieving 80% accuracy for occluded face recognition and reducing computational time.

Utilized Python, OpenCV, MySQL, Haar Cascade, PCA, and Fisher LDA for implementing face detection, recognition, and database integration.

Designed a robust training module with Fisher Faces, improving system stability and reducing error rates in diverse environments.

Built a Tkinter-based GUI for real-time attendance management, integrating live video feeds and frame-by-frame processing.

Core Competencies

Backend Node.js, Express.js, MongoDB, SQL (MySQL, PostgreSQL), RESTful APIs, WebSockets, Firebase, Server-side authentication, API integration.

Frontend React.js, HTML, CSS, JavaScript, JSX, Bootstrap, Material-UI, Responsive Design, RESTful API integration, AJAX, DOM manipulation, Cross-browser compatibility., jQuery
Mobile Development Java, Kotlin, Dart, React Native
Version Control Git, Github, Gitlab
Deployment Netlify Render Heroku AWS (Amazon Web Services) DigitalOcean
Interests Programming & Development, Photography, Travel, Reading

Publications

Automated Attendance System Based on Face Recognition & Live Video Processing, IJERT - ICCIDT **Jun 2021**
Technologies: Python, OpenCV, Haar Cascade, Fisher Linear Discriminant Analysis (LDA), Principal Component Analysis (PCA)

Developed and published a [research paper](#) on an Automated Attendance System that utilizes face recognition and live video processing for efficient and real-time attendance tracking. The paper, published in the International Journal of Engineering Research & Technology (IJERT), demonstrated the system’s 85%+ accuracy and its real-time capabilities in detecting and marking attendance.

The paper received appreciation from the IJERT team and industry professionals for its innovative approach and practical use of face recognition in educational attendance systems.

Successfully demonstrated the project at the final presentation, earning congratulations from faculty and officials for its potential to automate and improve traditional attendance methods in educational institutions.