Varun Gopinath

Full Stack Developer (JavaScript | Python | SQL | React | Node.js)

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SUMMARY

Full Stack Developer with 3+ years of experience building scalable web applications using JavaScript, Python, SQL, React, and Node.js. Proven ability to design custom tools and dashboards, build RESTful APIs, and work across the full development lifecycle. Experienced with both MongoDB and MS SQL. Fast learner with a collaborative mindset and a strong sense of project ownership.

EXPERIENCE

Freelance Web Developer Mar '24 — Present
Canada (Remote) Canada (Remote)
Delivered 10+ custom web applications for clients across industries, taking full ownership from planning to deployment. Worked with modern full-stack technologies including **React.js, Node.js, Python, and SQL** to build scalable, data-driven solutions tailored to client needs.

- Designed and implemented **full-stack applications**, custom tools, and interactive dashboards using **JavaScript**, **Python**, and **SQL**.
- Built and consumed **RESTful APIs**, integrated with third-party services (e.g., payment gateways, Google APIs).
- Used **React (TypeScript)** and **Redux** to develop performant, responsive front ends.
- Created both **NoSQL (MongoDB)** and **SQL (PostgreSQL, MS SQL)** database structures, optimizing queries for high-volume data.
- Deployed and maintained projects using platforms like **Netlify**, **Render**, and **AWS**.
- Applied agile practices, used tools like **Trello**, and maintained strong client communication throughout.
- ***Tech Used*** *- React.js, TypeScript, Node.js, Express.js, Python, SQL, PostgreSQL, MongoDB, Redux, Git, REST APIs, Netlify, AWS*

Full Stack Developer Aug '21 — Jun '23
JIVROM Technologies Kochi, India
Worked on over 15+ full-stack projects across diverse business domains, delivering custom web applications, internal dashboards, and automation tools from scratch. Contributed to all phases of the software development lifecycle — from gathering requirements to deployment and maintenance — using a wide range of modern technologies.

- Designed and developed **RESTful APIs using Node.js, Express.js, and Java (Spring Boot)** to implement robust backend services and business logic.
- Built dynamic and responsive front-end interfaces using **React.js, TypeScript, JavaScript, and Redux**, improving UI/UX consistency and reducing bugs by 25%.
- Created and optimized **MongoDB, MySQL, and PostgreSQL** database schemas, utilizing indexing, denormalization, and performance tuning techniques to reduce latency by 40%.
- Developed data-driven custom tools and admin dashboards for clients, supporting real-time analytics, reporting, and business workflows.
- Integrated multiple **third-party APIs** including payment gateways, email services, and OAuth2-secured music metadata services.
- Employed **Python** for internal scripting, automation tasks, and data processing components.
- Containerized applications using **Docker** and deployed to cloud platforms like **Render** and **AWS**.
- Version Control & Git: Used **Git** for version control and collaborative development workflows
- ***Tech Used*** *- JavaScript, TypeScript, React.js, Node.js, Express.js, Python, Java (Spring Boot), SQL (MySQL, PostgreSQL, MS SQL), MongoDB, Git, Docker, JWT, REST APIs, Redux, Jest, Swagger, AWS, OAuth2, Figma, Agile/Scrum*

EDUCATION

Post Graduate Diploma in Web Development, Conestoga College (GPA: 3.31) Sep '23 — Dec '24
Kitchener, Canada

Bachelor of Technology in Computer Science and Engineering, Mangalam College of Engineering (GPA: 7.21) Jun '17 — Jul '21
Kottayam, India

PROJECTS

PlanEat Link Aug '24 — Dec '24

- Developed a responsive dashboard interface using React.js for intuitive meal and inventory management.
- Built RESTful backend services with Node.js, Express.js, and MongoDB, enabling real-time data syncing across users.
- Key features include family-wide meal scheduling, pantry inventory management, and seasonal recipe suggestions tailored to user preferences.

- Integrated **Google Calendar API** for scheduling and automated reminders.
- Implemented **Firebase** for authentication and live collaboration features.
- Applied lazy loading, modular architecture, and deployment best practices using Netlify and Render
- ***Tech Used****: React.js, Node.js, Express.js, MongoDB, Firebase, Google Calendar API, Netlify, Render, RESTful APIs, JavaScript*

Automated Attendance System Based on Face Recognition & Live Video Processing Apr '20 — May '21

- 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.
- ***Tech Used:*** *Python, OpenCV, MySQL, Haar Cascade, PCA, Fisher LDA, Tkinter, Real-time Video Processing*

SKILLS

Programming Languages JavaScript (ES6+), TypeScript, Python, Java, C, C#, Kotlin, SQL
Frontend Technologies React.js, Redux, HTML5, CSS3, JSX, Bootstrap, Material-UI, jQuery, AJAX, DOM Manipulation, Responsive Design, Cross-browser Compatibility, Web Accessibility (WCAG)
Backend & Server-Side Development Node.js, Express.js, Spring Boot, .NET (C#), RESTful APIs, WebSockets, Firebase, Server-side Authentication, JWT
Databases MongoDB, PostgreSQL, MySQL, MS SQL
DevOps & Deployment Git, GitHub, GitLab, Docker, Netlify, Render, AWS
Testing & Code Quality Jest, React Testing Library, Unit Testing, Integration Testing
Mobile & Cross-Platform Development React Native, Java (Android), Kotlin, Dart
UI/UX & Design Tools Figma, Adobe XD, Webflow, Adobe Creative Suite, InDesign
Content Management & SEO WordPress, CMS Platforms, On-Page SEO, Keyword Optimization, Google Analytics, Content Publishing & Auditing
Workflow & Project Management Agile, Scrum, Trello, Technical Documentation, Git-based Workflows

PUBLICATIONS

Automated Attendance System Based on Face Recognition & Live Video Processing **Jun '21**
IJERT - ICCIDT
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.