

Davanesh Saminathan

Full Stack Developer (MERN) | React Native Developer

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Professional Summary

Aspiring Software Development Engineer with **experience building scalable systems** using Java, Node.js, React, PostgreSQL, MongoDB, and AWS (Lambda, Step Functions, EC2, S3). **Strong in Data Structures & Algorithms (250+ LeetCode problems) and object-oriented design.** Developed workflow engines, real-time systems, and cloud-integrated applications with focus on performance, reliability, and clean architecture.

Technical Skills

Programming Languages: Java, C, Python, JavaScript, TypeScript, Go

Core: Data Structures & Algorithms, Object-Oriented Design, Distributed Systems, OS, Computer Networks

Cloud & DevOps: AWS (Lambda, EC2, S3, Step Functions), Docker, Kubernetes, Linux

Backend: Node.js, Express.js, Microservices, REST APIs

Frontend: React.js, React Native, Next.js, Tailwind

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, GitHub, Firebase, Figma

Internship

Full Stack Developer Intern — NIT, Trichy (June 2025 – July 2025)

Tech: React Native, Node.js, PostgreSQL, Firebase, AWS

- Built a real-time ambulance dispatch system using React Native + Node.js, **improving response time by 40%.**
- Integrated live GPS updates using (Firebase and Google Maps API), **reducing location-sync latency by 30%;** ensuring **99.9% uptime** with AWS deployment.

Projects

– AutoFlow.AI — Workflow Orchestrator (Nov 2025 – Present)

Tech: Go, React, AWS (Lambda, Step Functions, ECS), MongoDB, Microservices

- Built a scalable workflow engine using topological sorting + microservices, improving execution speed by **~40%** with AI-based optimization.
- Developed a drag-and-drop builder with real-time node execution and visual logs.

(GitHub: <https://github.com/davanesh/autoFlow>)

- **AI Pull Request Reviewer (Aug 2025 – Present)**
Tech: OpenAI API, GitHub Actions
 - Automated PR code reviews using LLMs, reducing manual review time by **60%** and improving code quality.
(GitHub: <https://github.com/davanesh/AI-powered-PR-reviewer>)
- **Google Docs Clone (Dec 2024 – Jan 2025)**
Tech: Next.js, Liveblocks, Convex, Clerk
 - Delivered zero-lag collaborative editing using CRDT-based syncing; boosted session retention by **35%**.
(GitHub: [github.com/davanesh/Google Docs Clone](https://github.com/davanesh/Google-Docs-Clone))
- **Real Estate Marketplace (Sep 2024 – Oct 2024)**
Tech: React.js, Node.js, MongoDB Atlas, AWS
 - Improved search performance by **2x** via optimized filtering + indexing; reduced drop-offs by **25%** with mobile-first UI.
(GitHub: github.com/davanesh/Real-Estate-Marketplace)

Education

Bachelor of Technology (B. Tech) — Computer Science and Engineering (CSE) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai 2023 – 2027 YOP	CGPA: 7.96/10
Relevant Coursework: Data structures and algorithms, Database, Python, C	
Senior Secondary (Class XII), CBSE Alpha Wisdom Vidyashram Senior Secondary School, Trichy Year: 2023	CGPA: 7.4/10
Secondary (Class X), IGCSE Alpha Cambridge International School, Trichy Year: 2021	CGPA: 8.1/10

Certifications

AWS Cloud Technical Essentials — Amazon Web Services (AWS)
Advanced React — Meta
Programming with JavaScript — Meta
UI/UX Design Principles — Meta
Introduction to Containers w/ Docker, Kubernetes & OpenShift — IBM
Developing Back-End Apps with Node.js and Express — IBM
React Native — Meta

Achievements

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- Selected for a full-stack development **internship at NIT Trichy**, contributing to scalable web app modules using MERN stack and AWS.
 - **Finalist – KSR Hackathon 2024** (Built AI grocery app)