

# Davanesh Saminathan

Full Stack Developer (MERN) | React Native Developer

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[leetcode.com/u/davanesh](https://leetcode.com/u/davanesh) | [www.hackerrank.com/profile/vtu26356](https://www.hackerrank.com/profile/vtu26356)

## Professional Summary

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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

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**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

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### 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

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### — 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](https://github.com/davanesh/Real-Estate-Marketplace))

## Education

### **Bachelor of Technology (B. Tech) — Computer Science and Engineering (CSE)**

**CGPA: 7.96/10**

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai  
2023 – 2027 YOP

**Relevant Coursework:** Data structures and algorithms, Database, Python, C

### **Senior Secondary (Class XII), CBSE**

**CGPA: 7.4/10**

Alpha Wisdom Vidyashram Senior Secondary School, Trichy

Year: 2023

### **Secondary (Class X), IGCSE**

**CGPA: 8.1/10**

Alpha Cambridge International School, Trichy

Year: 2021

## 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

- 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)