

VINOTH KUMAR S

Software Engineer | Full Stack Developer

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PROFESSIONAL SUMMARY

Full stack software engineer pursuing M.Tech in Computer Science (Full Stack Development), with three internships building web, mobile and AI-enabled applications using React.js, Node.js, TypeScript, Python, Flutter, Docker and AWS. Shipped a Flutter app with a Generative AI chatbot to Google Play and built a multi-college academic platform with AI-driven scheduling. 242 LeetCode problems solved, working knowledge of OWASP Top 10 and API security, and an IEEE paper under review.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL

Frontend: React.js, React Flow, Vue.js, HTML, CSS, Flutter (Android and iOS)

Backend and Databases: Node.js, Express.js, RESTful APIs, MongoDB (NoSQL), SQL

Cloud and DevOps: AWS (Lambda, S3, RDS), Docker, GitHub Actions, CI/CD, Git, GitHub

AI / ML: Generative AI (Google Gemini API), RAG, Machine Learning, Regression Models

Security: OWASP Top 10, Secure Coding, API Security

Core CS: Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Design: Figma (Edu-Track, RacketRealm, ProSports Dashboard prototypes), UI/UX, Wireframing

PROFESSIONAL EXPERIENCE

Software Development Intern, JSP Global Solutions – Chennai, TN

Jan 2026 – May 2026

- Built Ecoverify, a multi-college academic portal delivering 4+ academic workflow modules that digitize manual processes and reduce paper usage.
- Developed AI-driven modules for automated exam timetable generation and intelligent seating allotment.
- Implemented a multi-role system for course registration and automated question paper generation.
- Designed the architecture for multi-college scalability, reducing administrative effort and manual errors.

App Developer Intern, Magnumopus One Ceaser – Chennai, TN

Dec 2025 – Jan 2026

- Developed Vazhi, a cross-platform Flutter application for Android and iOS with 15+ mobile screens.
- Completed 3+ major API integrations, including Vazhi Chat, a Generative AI medical chatbot for automated user engagement.
- Deployed the application to the Google Play Store.

Project Trainee Intern, HCL Technologies – Remote

Jun 2025 – Jul 2025

- Completed training and assessments across 3 technical domains: Networking, Mainframe Development and Cybersecurity.

PROJECTS

Medical Record Management with RAG and Blockchain | TypeScript, RAG, Blockchain, Cloud Storage

- Built a medical record management system that combines retrieval-augmented generation (RAG), blockchain and cloud storage.

AI Risk Manager | Python, Machine Learning

- Built an AI-powered return risk scorer for merchants that predicts high-risk returns using machine learning and cost-aware threshold optimization to reduce losses.

Physiotherapy Hospital AI Chatbot | JavaScript, Google Gemini API

- Developed the chatbot backend using the Google Gemini API with tuned answers and strict response boundaries.

HR Workflow Designer | React.js, TypeScript, React Flow

- Built a visual workflow builder for HR processes using React, TypeScript and React Flow.

AI Dynamic Pricing Model | React.js, Machine Learning, REST APIs

- Built a pricing engine with four strategies (demand forecasting, inventory optimization, competitor analysis, behavioral pricing) and RESTful APIs for e-commerce integration.

BRW Inc.in | MongoDB, Express.js, React.js, Node.js, Docker, GitHub Actions

- Built a MERN stack app with GPay SDK payments; containerized with Docker and automated deployment using GitHub Actions CI/CD.

UDRIVE

- Delivered 10+ screens and modules for the application.

EDUCATION

M.Tech, Computer Science and Engineering (Full Stack Development), SRM University – Chennai, TN

2025 – Present

B.Tech, Information Technology, Sri Krishna College – Coimbatore, TN

2021 – 2025

Higher Secondary (12th), State Board, 2020: 86% | Secondary (10th), State Board, 2019: 76%

RESEARCH AND ACHIEVEMENTS

- Research:** Authored "AI-Powered Pricing for E-Commerce" (regression-based price prediction); under review at an IEEE conference.
- Solved 242 LeetCode problems.
- Team Lead, Smart India Hackathon (SIH) Innovation Challenge; 3x prize winner in college hackathons.