

# SANTHOSH T K

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## PROFILE SUMMARY

Full-Stack Developer with **2.5+ years of experience** building secure, scalable, and high-performance applications using **Node.js, Express.js, React.js, MySQL, MongoDB**. Skilled in API development, backend optimization, authentication, caching, and debugging. Experienced in **migrating legacy systems**, improving API performance, and delivering end-to-end features in production systems.

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## CORE SKILLS

**Backend:** Node.js, Express.js, REST APIs, JWT, Middleware, MVC, Async/Await

**Frontend:** React.js, JavaScript (ES6+), Hooks, HTML5, CSS3, Reusable components

**Databases:** MySQL, MongoDB, Joins, Indexing, Query Optimization

**Tools:** Git, GitHub, Postman, npm, VS Code, JSON

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## WORK EXPERIENCE

**Software Developer | Sify Technologies, Chennai**

**Jul 2023 – Present**

### **Project: QPTool – Exam Configuration Platform**

- Developed scalable backend modules using **Node.js, Express.js, MySQL, MongoDB**.
- Designed REST APIs and integrated with React.js frontend, improving response time by **~20%**.
- Refactored legacy backend logic into modular services, improving maintainability.
- Improved API validation, security, and error-handling mechanisms.
- Built reusable **React.js components**, implemented UI logic, and handled API integration on the frontend.

### **Project: Exam Engine – Exam Delivery System**

- Migrated backend logic from **PHP to Node.js & MongoDB**, reducing recurring issues by **~30%**.
- Built secure routes with **JWT authentication** and role-based access control.

- Optimized MySQL/MongoDB queries, improving exam data retrieval and reducing load.
  - Fixed async issues, race conditions, and UI rendering delays.
  - Implemented centralized error-handling and structured logging to improve debugging speed.
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## KEY ACHIEVEMENTS

- Reduced API latency by optimizing SQL/Mongo queries and adding caching layers.
  - Delivered multiple backend + frontend modules ahead of deadlines.
  - Strengthened system reliability through structured logging and optimized exception handling.
  - Improved code quality via consistent Git practices and code reviews.
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## INTERNSHIP EXPERIENCE

### Full-Stack Intern | Sify Technologies (CHIP 2023 Program)

Feb 2023 – Jul 2023

- Worked on full-stack development using **Node.js, Express.js, React.js, MySQL, MongoDB**.
  - Gained experience in production workflow, Git, and debugging techniques.
  - Built internal modules and utilities used by engineering teams.
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## EDUCATION

### B.E — Electronics & Communication Engineering

Velammal College of Engineering & Technology, Madurai (CGPA: **9.15 / 10**) - 2023

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## CERTIFICATIONS

- JavaScript & ReactJS Bootcamp - Google for Developers
  - HTML5 Programming - Udemy
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## KEY STRENGTHS

- Strong debugging and problem-solving
- Clean, maintainable code practices
- Ability to modernize and refactor legacy systems
- Performance-focused API design mindset