KARTHIKAYAN SELVARAJ

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SENIOR SOFTWARE ENGINEER

Experienced Senior Software Engineer with over **8+ years** of expertise in **React.js and Node.js**. Highly **goal-oriented** and consistently **seeking new challenges** to refine and expand my skills. Eager to take on roles that leverage and enhance my abilities in cutting-edge technologies.

SKILLS

- **React.js**
- **Node.js**
- **HTML & CSS**
- **JavaScript**
- **Jest**

- **React Testing Library**
- **Redux**
- **Typescript**
- **Express.js**

- **PostgreSQL**
- **Git**
- **Docker**
- **AWS**
- **Microservice**

WORK EXPERIENCE

Tata Consultancy Services   **November 2016 - Present**

- Responsible for design, development and maintenance of **React.js and Node.js** web applications.
- Accountable for **making strategic decisions** regarding application architecture, technology stack, security and development practices.
- **Ensure the application meets business requirements** and industry standards. Balance technical feasibility with business requirements.
- **Write clean, efficient, and maintainable code.**
- Assign Tasks, set priorities and conduct **code reviews.**

EDUCATION

B.Tech - Electronics and Communication   **2012-2016**

Sri Manakula Vinayagar Engineering College, Puducherry

PROJECTS

Online Coding Platform   **2020 - Present**

- This application enables users to **access a cloud coding environment directly from browser.**
- Developed **REST APIs** using Node.js**, Frontend** using React.js**.**
- Created reusable **Docker images** for multiple sandbox environments.
- **Created shell and node scripts** that will evaluate the user submitted code.
- This **reduced the cost** for provisioning coding environment by 50%.

Online Learning Platform   **2016 - 2020**

- Developed **responsive web UI** using React.js for the web applications that enables users to take **online courses and assessments**.
- **Revamped the legacy code base** to latest react version which improved the application performance.
- Developed frontend for **support ticket management** system, a web application to manage customer tickets.
- Developed frontend for **admin interface,** a web application to create and manage the contents for the learning application.

ACHIEVEMENTS

- Participated in TCS Innovista 2025 event where my entry was showcased to the jury in the prefinals.
- Cleared Direct Capability Assessment in TCS and got promoted to digital cadre.
- Star performer of the ILP training batch.