

# Kathiravan Nambirajan

Full-Stack Developer | Expert in React, Angular, Node.js, MySQL | Scalable & Secure Web Applications | AWS (S3, SES, EC2) | REST API & Code Architecture | Performance Optimization

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📍 Chennai, Tamilnadu

🔗 portfolio

🌐 kathiravan-nambirajan

## PROFILE SUMMARY

Full-Stack Developer with **3+ years** of experience in **React, Angular, Node.js, MySQL**. Specialized in **scalable architectures, secure REST APIs, and performance optimization**. Strong expertise in **Redux, Tailwind CSS, Bootstrap, MUI**, and developing **reusable UI components**. Skilled in **AWS (S3, SES, EC2), encryption**.

## EDUCATION

Bachelor of Engineering

SEP- 2017 - AUG - 2021

- Electronics and Communication Engineering
- 7.1 CGPA

## SKILLS

- **Front-End:** React, Redux, Angular, Tailwind CSS, Bootstrap, MUI, JavaScript, TypeScript, HubSpot.
- **Back-End:** Node.js, Express.js, MySQL, MongoDB, REST API, Authentication (JWT, OAuth), CryptoJS.
- **Cloud :** AWS (S3, SES, EC2).
- **Tools :** Svn, VS Code, XAMPP, HeidiSQL, Postman.
- **AI:** ChatGPT, Gemini.

## WORK EXPERIENCE

**Compindia & Tech.us**

Full Stack Web Developer

FEB - 2022 - Present

### Front-End Development :

- Developed **high-performance, responsive** web applications using **React, Redux, Angular, Bootstrap, Tailwind CSS**, ensuring cross-browser and **mobile-first compatibility**.
- Designed and implemented **reusable UI components** to enhance development efficiency, reducing redundant code by **30%**.
- Integrated **Material-UI (MUI) components**, ensuring a modern, accessible, and interactive UI/UX experience.
- Implemented **end-to-end encryption (CryptoJS, JWT)** to secure sensitive data and enhance frontend security.

### Back-End Development :

- Architected and maintained **scalable, secure** backend systems using **Node.js, Express.js, MySQL**, ensuring optimal **API performance**.
- Designed and optimized **stored procedures & indexing strategies**, improving database query performance by **40%**.
- Developed **secure API endpoints** with **JWT & Authentication**, preventing unauthorized access and enhancing data protection.
- Implemented **MVC architecture** in Node.js applications, ensuring clean code structure and maintainability.

## PROJECTS

## Tech.Ux - Responsive UI/UX Design & Development

- Designed and developed a **modern, responsive UI** for **Tech.Ux**, ensuring a **seamless user experience across devices**.
- Implemented **smooth animations, interactive elements, and intuitive navigation**, improving user engagement.
- Built using **HTML, CSS, HubSpot (CMS)** for dynamic content management and easy scalability.
- **Technologies:** HTML, CSS, HubSpot CMS

## Carmel Emailer - Automated Email Scheduling System

- Developed a **cron-based email automation tool**, allowing businesses to schedule bulk email blasts using **AWS-SES**.
- Created a **client approval workflow**, where emails were reviewed before scheduling, ensuring **error-free campaigns**.
- Built with **React, Node.js, MySQL** for a scalable and secure architecture.
- **Technologies:** React, Node.js, MySQL, AWS-SES, Cron Jobs

## Annotation - AI-Powered Image Annotation & Object Detection

- Built a **React-based annotation platform** for labeling objects in images, integrated with **machine learning (ML) models**.
- Used **Annotorious npm package & TensorFlow.js** for **real-time object detection & classification**.
- Secured sensitive annotation data using **CryptoJS encryption**.
- **Technologies:** React, Node.js, MySQL, CryptoJS, Annotorious Package, TensorFlow.js

## Quiz App - Secure REST API for Admin & Users

- Developed a **RESTful API** to manage **quizzes, user authentication, and real-time responses**.
- Implemented **secure authentication & encryption (CryptoJS)** to protect user data.
- Optimized database queries using **MySQL stored procedures**, reducing response time by **40%**.
- **Technologies:** Node.js, MySQL, CryptoJS

## CERTIFICATIONS

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Angular [simplilearn] [🔗](#)

AWS - EC2 [simplilearn] [🔗](#)

## ACHIEVEMENTS

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- **Optimized API Performance** - Improved database query efficiency by **40%** using **stored procedures & indexing in MySQL**.
- **Enhanced Security** - Implemented **end-to-end encryption (CryptoJS, JWT, OAuth)** for secure API communication..
- **Reusable UI Components** - Developed **scalable React & Angular components**, reducing development time by **30%**.
- **Automated Email Scheduling** - Built **Carmel Emailer**, reducing manual email operations by **80%** using **AWS-SES & cron jobs**.