# JENIFER NIRMAL RAJ

## Full Stack Developer (MERN Stack)

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## PROFESSIONAL SUMMARY

Full Stack Developer specializing in the MERN stack with experience building scalable, user-focused web applications since 2021. Leverage 10+ years of research, analytical thinking, and problem-solving from a biotechnology background to excel in software development. Skilled in React, Node.js, Express, MongoDB, and modern UI frameworks. Developed 15+ full-stack applications with optimized load times and well-structured, performance-oriented APIs tested for reliability in development environments. Bring strong attention to detail, a systematic approach, and adaptability cultivated through a career transition from scientific research to software engineering.

## TECHNICAL SKILLS

**Frontend:** React, Vite, JavaScript, TypeScript, Redux, Tailwind CSS, HTML5, CSS3, Bootstrap

**Backend:** Node.js, Express, REST APIs, JWT Authentication, Firebase

**Database:** MongoDB, Firestore

**Tools:** Git, GitHub, Postman, CI/CD (GitHub Actions / Vercel), Vercel, Netlify, VS Code, npm, Figma

## PROFESSIONAL EXPERIENCE

### Full Stack Developer | Personal & Open-Source Projects

*December 2021 – Present*

- Build and deploy full-stack web applications using the MERN stack for a wide range of self-initiated and open-source projects
- Design scalable REST APIs, implement secure authentication (including JWT), and deploy applications on cloud platforms such as Vercel and Netlify
- Optimize application performance, achieving up to 40% faster load times across multiple projects through improved API structure, database queries, and frontend optimizations
- Develop and test reliable APIs in development environments using structured architecture, error handling, and performance-focused coding practices
- Follow Agile-inspired workflows (sprints, task planning, iterative development) to manage and deliver solo projects efficiently
- Successfully delivered 15+ full-stack, production-ready applications from planning and design to deployment

### Associate Professor | RIA Institutions

*September 2015 – August 2021*

- Coordinated placement programs and established industry partnerships for 500+ students
- Developed strong communication, leadership, and project coordination skills during career transition
- Built foundation in logical thinking and process optimization while exploring the technology career path

### Assistant Professor | Dr. G.R. Damodaran College of Science

*June 2012 – June 2015*

- Mentored research projects and designed efficient workflows for student teams
- Developed analytical and systematic problem-solving approaches through complex research troubleshooting

### Research Engineer | CNRS, France

*October 2009 – March 2012*

- Designed complex experiments and maintained comprehensive technical documentation
- Cultivated meticulous attention to detail and systematic problem-solving methodologies

## FEATURED PROJECTS

**CodeConnect – Peer Project Hub**
*MERN Stack, Firebase*

- Full-stack platform for sharing and reviewing coding projects with Firebase authentication
- Implemented Express APIs, MongoDB indexing, and infinite scroll feed functionality
- Built admin dashboard with analytics, advanced filters, search capabilities, and user metrics

**Student Management System**
*MERN Stack*

- CRUD application managing 1,000+ student records with optimized database queries
- Developed scalable REST API with connectivity monitoring and responsive UI design

**Bulk Mail Application**
*MERN Stack, Gmail API*

- Enterprise bulk mailer with JWT authentication and Gmail API integration
- Implemented geolocation tracking, campaign analytics, and serverless deployment architecture

**Cineflix OTT Platform**
*React, TMDB API, Vite, Tailwind CSS*

- Netflix-style streaming UI with genre browsing, search filters, lazy loading, and video previews
- Integrated TMDB API for real-time content delivery and dynamic routing functionality

**Weather Forecast App**
*React, OpenWeather API*

- Real-time weather application with geolocation integration and dynamic background themes

**Full Stack Task Manager Application**
*React, Node.js, Express.js, MongoDB, JWT*

- Developed complete CRUD application with RESTful API and secure JWT-based authentication
- Built Express backend with protected routes and MongoDB schema for user associations
- Implemented React Hooks for state management with a glassmorphism UI featuring task filtering and sorting

**E-commerce Platform – Pandora & Nostra**
*React, Redux, Node.js, JavaScript, CSS3*

- Developed full-featured e-commerce platforms with product catalog, filtering, and shopping cart using Redux
- Created checkout flow with form validation, payment gateway simulation, and dynamic pricing
- Built product detail pages with image gallery and mobile-responsive layouts for optimal UX

**Apple Website Clone**
*React, JavaScript, Tailwind CSS, GSAP*

- Created pixel-perfect recreation of Apple homepage with smooth scroll animations using GSAP
- Implemented dark/light theme toggle with persistent preferences and responsive navigation

## EDUCATION

**PhD in Microbial Molecular Genetics** | Lille University of Science & Technology, France

**MSc in Biotechnology** | Bharathidasan University, India

**BSc in Botany (Applied Biotech & Microbiology)** | Bharathidasan University, India

## CERTIFICATIONS

MERN Stack | JavaScript Algorithms | React | Node.js | MongoDB | API Design | Git & GitHub

## ADDITIONAL INFORMATION

**Languages:** English, French, Tamil, Malayalam
**Interests:** Web Development, UI/UX Design, Open Source Contribution, Photography, Sports