

# VIKKARAMAN

## Full Stack Developer

+91 6383797129 | vallarasu0410@gmail.com | Ekkaduthangal, Chennai, Tamil Nadu

Portfolio: <https://vallarasu0419.github.io/Portfolio/>

---

### PROFESSIONAL SUMMARY

Results-driven Full Stack Developer with 3+ years of hands-on experience in designing, developing, and deploying scalable web and mobile applications using Microservices Architecture. Specialized in JavaScript technologies including React.js, Next.js, React Native, and Node.js with expertise in building full-stack solutions from database design to responsive UI implementation. Proven track record of leading development teams, delivering key products from scratch, and integrating third-party APIs including Microsoft Teams, IoT biometric devices, and real-time systems via Socket.IO. Experienced in Agile development, REST API design, cloud deployment on AWS, and end-to-end product delivery for EdTech and SaaS platforms.

---

### TECHNICAL SKILLS

**Languages & Frameworks:** JavaScript, TypeScript, React.js, Next.js, React Native, Node.js, Express.js, Redux, HTML5, CSS3, Material UI, Bootstrap

**Backend & Architecture:** REST APIs, Microservices Architecture, WebSockets, Socket.IO, Microsoft Teams API, ST Courier API, Callback APIs, JWT Authentication

**Databases:** MySQL, MongoDB

**Cloud & DevOps:** AWS (EC2, S3), Git, GitHub, CI/CD, Agile/Scrum, Version Control

**Tools & Platforms:** VS Code, Postman, Jira, Figma, npm, Webpack

---

### PROFESSIONAL EXPERIENCE

**Full Stack Developer** | *Bharat Clouds Private Limited*

Feb 2025 - Present

**Project: iFillip - IoT-Powered School Management Platform**

Live: <https://bcpl.ifillip.com/>

- Developed iFillip, a comprehensive cloud-based school management platform with Microservices Architecture using React.js and Node.js, streamlining academic and administrative processes for educational institutions.
- Built multi-lingual modules including staff and student attendance, exam management, holiday calendars, event scheduling, leave management, online applications, and academic year rollover functionality.
- Integrated IoT-enabled Biometric Attendance Devices and Biometric Access Control Systems for real-time, accurate attendance tracking with seamless school workflow integration.
- Engineered RESTful APIs for managing complex school operations including student enrollment, exam scheduling, fee management, and real-time data synchronization across modules.
- Implemented role-based access control for administrators, teachers, students, and parents, ensuring secure data access and transparent information dissemination across all stakeholders.
- Designed scalable, cloud-enabled multi-layered architecture with strong data security features, enabling schools to digitize operations and achieve paperless "Go Green" workflows.

**Project: AIASA - IAS Academy Web Application**

Live: <https://annaiasacademy.com/>

- Developed and deployed AIASA, a full-stack web application for IAS Academy students to manage exam admissions, attend online classes, and take model exams, serving 5000+ active students.
- Built the complete frontend using React.js with responsive UI components and state management using Redux, improving user engagement and navigation efficiency.
- Engineered RESTful APIs and backend services with Node.js and Express.js for user authentication (JWT), exam scheduling, and e-commerce order processing.

- Integrated Microsoft Teams API for seamless online class scheduling and live session management directly within the application.
- Implemented ST Courier integration with callback APIs for real-time logistics tracking, enabling students to order exam-related books with home delivery or branch pickup.
- Integrated Socket.IO for real-time push notifications, ensuring instant updates on exam schedules, class timings, and order status changes.

**Software Developer** | Cotyledon Technologies Private Limited

Dec 2022 - Dec 2024

**Project: Pick Your Slot - Cloud-Based Appointment Scheduling Platform**

Live: <https://pickyourslot.com/>

- Led the end-to-end development and deployment of "Pick Your Slot," a user-friendly web and mobile application for salons, gyms, and service businesses, which became the organization's key revenue product.
- Managed a team of 5 web developers, conducting code reviews, sprint planning, and ensuring on-time delivery of features across multiple release cycles.
- Built dynamic, responsive user interfaces using React.js and React Native, delivering seamless cross-platform experiences for web and mobile users.
- Developed secure backend REST APIs using Node.js and Express.js for appointment booking, user management, and payment processing.
- Deployed and maintained applications on AWS (EC2, S3), achieving 99.9% uptime and ensuring seamless product delivery with zero-downtime deployments.
- Implemented authentication, data encryption, and role-based access control mechanisms to secure user data and harden platform security.
- Optimized application performance by implementing code splitting and lazy loading, reducing page load time by 35%.

## KEY PROJECTS

**iFillip - IoT-Powered School Management Platform** | React.js, Node.js, REST APIs, IoT, Biometric Integration, MySQL, MongoDB

Live: <https://bcpl.ifillip.com/>

- Comprehensive cloud-based school ERP with multi-lingual support, IoT biometric attendance, exam management, leave and event modules, online applications, and academic year rollover. Designed with microservices architecture and multi-layered security for scalable institutional deployment.

**AIASA - IAS Academy Platform** | React.js, Node.js, Express.js, MySQL, Socket.IO, MS Teams API

Live: <https://annaiasacademy.com/>

- End-to-end IAS Academy platform with admission management, online classes via MS Teams, model exams, e-commerce module for book ordering, and real-time notifications using Socket.IO with ST Courier callback API integration.

**Pick Your Slot - Appointment Scheduling Platform** | React.js, React Native, Node.js, AWS (EC2, S3), MySQL

Live: <https://pickyourslot.com/>

- Cloud-based scheduling platform for salons, gyms, and car washes with cross-platform web and mobile apps. Features real-time slot booking, user authentication, payment integration, and AWS deployment with 99.9% uptime.

## EDUCATION

**Bachelor of Technology (B.Tech) - Information Technology**

2018 - 2022

Jeppiaar SRR Engineering College, Chennai | CGPA: 7.4

**HSC (Higher Secondary Certificate)**

2018

Jawahar Matric Hr Sec School

**SSLC (Secondary School Leaving Certificate)**

2016

Jawahar Matric Hr Sec School

## **SOFT SKILLS**

Team Leadership & Mentoring, Agile/Scrum Methodology, Logical Thinking & Problem Solving, Cross-Functional Collaboration, Decision Making, Excellent Communication, Multi-Tasking & Time Management