

VIGNESH PAULRAJ

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[GitHub](#) | [Portfolio](#)

Summary

Experienced Backend Engineer with a 2-year track record in Fintech and Edtech offering exceptional problem-solving skills and a strong commitment to collaboration. Proficient in Node.js, Express.js, React.js, MongoDB, Redux and various database technologies. Enthusiastic about creating a white-glove customer experience and delivering high-value outcomes with calm and focused demeanour.

TECHNICAL SKILLS

| Node.js | Next.js | Tailwind | MongoDB | React.js | JavaScript | Jest | HTML | CSS | REST APIs | Express.js | MySQL | Git | Bitbucket | Shadcn | Material UI | Sequelize | Docker | Node tesseract | Generative AI | Large language model (LLM) | AWS s3 | Lambda | Ec2

EXPERIENCE

Backend Engineer, *Midas Fintech Solutions*, Mumbai, India

Jun 2023- Present

- **ShikshaML** stands as the new realm of Education Technology, elevating traditional learning methods through. This comprehensive project has been meticulously crafted to redefine the educational landscape, offering an array of features aimed at fostering interactive, personalized, and goal-driven learning experiences
- Empowers users through **AI chatbot** interactions for engaging educational content using **vectors** and **semantic search**.
- Leverages **OCR** (optical character recognition) Technique for extracting textual content from books and video and processed as transcriptions for **LLM** and **vector embeddings** for content summarization, structured **tests** and **assessments** for evaluating understanding.
- Seamless data storage in **Redis** for failsafe mechanism during book and video uploads.
- Streamlined onboarding with Google Sign-In.
- Email (**Node mailer**) notifications and real-time SMS (**Twilio**) alerts for app-related activities.
- **Telegram** integration for live content upload status updates.
- Efficient data modelling and management through **MongoDB** with CRUD functionality.
- **Technologies Used:**
Utilizes cutting-edge technologies such as **Node.js**, **Next.js**, Large Language Model, **Generative AI**, Lang chain, **Redux**, **Tailwind CSS**, **Redis**, **MongoDB** and **Jest**.

Full stack developer Trainee Engineer, *63 Moons Technologies Pvt Ltd*, Mumbai, India

Feb 2022- Apr 2023

- **EZ Scheduler** Developed as a comprehensive automation solution, EZ Scheduler is a full-stack project designed to streamline and manage file downloads from financial sources like BSE and NSE. The project employs React.js and Node.js, showcasing a robust Microservices Architecture and implementing CRUD operations.
Key Features:
 - Worked on creating **Rest API** which Facilitates automated scheduling and downloads from financial sources BSE and NSE. using **Nodejs**, **React.js**, **Express.js**, **Cron jobs**.
 - Supports uploading files to MySQL databases in various formats *eg.csv, excel*
- **Microservices Architecture:**
 - Adopts a modular approach for scalability and easy for spinning processes in **pm2** and maintenance with **Docker**.
 - Created the communication module (Email and SMS) using **Nodejs**, **Express.js** and **Jest**.
- **Web Application:**
 - Implements CRUD operations for efficient data management.
 - Utilizes React.js and **shadcn** to create a responsive user interface.
- **Integration:**
 - Incorporates Apache Kafka for real-time error and info log generation.
 - Monitors application performance for actionable insights.
- **WebSocket Real-time Updates:**
 - Implements WebSocket using **socket.io** in Node.js for dynamic frontend updates.
 - Enhances user experience with live file status through **Material UI** tables and Tailwind CSS.

CERTIFICATIONS

- **Full stack web development (IIT-M) (2021)**
- **Capstone projects:** Hotel booking platform, E-commerce app
- **Relevant Coursework:** React.js, Node.js, MongoDB, Express.js, Redux, Tailwind

EDUCATION

- **BHARATI VIDYAPEETH COLLEGE OF ENGINEERING**, Navi Mumbai, India
Bachelors of Engineering, Instrumentation (CGPA: 6.12)
- **HOLY ANGELS SCHOOL & JR.COLLEGE /CBSE & HSC**, Dombivli, India
(CGPA: 7.09)