

VIGNESH PAULRAJ

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.

Work Experience

Backend Engineer

Midas Fintech Solutions - Mumbai, Maharashtra
June 2023 to 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, Maharashtra
February 2022 to April 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:

- o 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.
- o Supports uploading files to MySQL databases in various formats eg.csv, excel
 - Microservices Architecture:
- o Adopts a modular approach for scalability and easy for spinning processes in pm2 and maintenance with Docker .
- o Created the communication module (Email and SMS) using Nodejs, Express.js and Jest.
 - Web Application:
- o Implements CRUD operations for efficient data management.
- o Utilizes React.js and shadcn to create a responsive user interface.
 - Integration:
- o Incorporates Apache Kafka for real-time error and info log generation.
- o Monitors application performance for actionable insights.
 - WebSocket Real-time Updates:
- o Implements WebSocket using socket.io in Node.js for dynamic frontend updates.
- o Enhances user experience with live file status through Material UI tables and Tailwind CSS.

Education

Bachelors of Engineering in Engineering, Instrumentation

BHARATI VIDYAPEETH COLLEGE OF ENGINEERING - Mumbai, Maharashtra

CBSE & HSC

HOLY ANGELS SCHOOL - Dombivli, Maharashtra

Skills / IT 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

Certifications and Licenses

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