

Akassh Paramasivan

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TECHNICAL SKILLS

Libraries and frameworks: Python, HTML5, CSS3, SCSS, JavaScript, Java, MySQL, MongoDB, Node.js, JQuery, ReactJS, Express JS, Bootstrap, Material-UI, Pandas, NumPy, Data Structures, Mulesoft, GenAI, Agentic AI

Databases: MySQL, MongoDB, Oracle, Microsoft SqlServer, PostgreSQL

Cloud: AWS(S3, RDS, EC2, Lambda, IAM, Glue, Redshift, EMR), CI/CD pipelines, Azure

Tools and IDE: GIT, Jira, Adobe, Figma, Eclipse, Visual Studio Code, Netbeans, Eclipse, Pycharm

EDUCATION

Northeastern University - MS in Information Systems, GPA: 3.7/4, Boston, (Sep 2024 – present)

Sathyabama University - B.Tech in Information Technology, CGPA: 9.24 / 10, (Aug 2017 - May 2021)

Honors and awards: Earned a proficiency certificate to secure second rank in the IT department

EXPERIENCE

Cognizant

Sep 2021 – Jul 2024

Associate – Projects : JP Morgan, Cambridge University, Lineage Logistics

Chennai, TN

- Developed components using the **MUI framework** and **Cambridge theme**, including dynamic tables, role-specific designs and designed sub-queries in **PostgreSQL**
- Implemented **CRUD** operations for the exam officer role, supporting single and multiple updates for all-level candidates.
- Designed admin UI/UX in **Figma** and implemented components in **React**, ensuring seamless integration.
- Configured **Redux** and integrated **MuleSoft** for GET/POST APIs, creating **reusable components** and improving state management efficiency and cutting data-fetch latency by **30%**.
- Implemented **i18-next** localization, adapting the application to various locales (AUS, US, CA).
- Handled back-end **integration**, efficiently mapping API responses to corresponding keys.
- Built **dynamic date functions** to accommodate region-specific formats, reducing format-related errors by **20%**.
- Played a key role in designing **web components** for loan approval data collection, and built modules for franchise management, loan requests, admin functions, and user registration using **React and Redux**.
- Resolved **code smells** in **SONAR** and improved **20%** in UI accessibility for better user experience.

PROJECTS

Time Theft Design | *React Js, Redux-toolkit, Postgresql, FastAPI, NumPy, Pandas, TensorFlow, GenAI*

- Developed a system to **track daily distractions** and analyze **mind calibrations** to improve focus and productivity.
- Designed an **interactive dashboard** using **React.js** and **Recharts** to visualize distraction patterns and cognitive trends.
- Built a **REST API** with **Fast-API** to handle user distraction logs and real-time mind calibration data.
- Integrated **PostgreSQL** for structured storage for flexible tracking of user behavior over time.
- Implemented AI-driven insights using **TensorFlow** to detect focus loss and provide **real-time recovery recommendations**.

MARC System | *React Js, Redux-toolkit, Express Js, MongoDB, i18-next, Azure, Stripe API*

- Built a scalable architecture with **React** and **Express.js** to streamline construction project workflows.
- Reduced development time by **20%** using **Redux Toolkit** and reusable components.
- Integrated **Stripe API** for seamless payment processing, enabling efficient handling of transactions.
- Improved user experience with **Material-UI** and localization via **i18-next**.
- Enhanced real-time collaboration using **Fugu** capabilities, improving team communication within the system.

Earn Easy(\$) | *React.js, Redux Toolkit, Spring Boot, MySQL, Stripe API*

- Built **dynamic UI components** using **React.js** and state management with **Redux Toolkit** for a seamless user experience.
- Designed and implemented efficient **REST APIs** using **Spring Boot** to handle business logic and data flow.
- Utilized **MySQL** for database management, designing normalized schemas to store service listings, user profiles, and transaction records.