Ramvasanth Mahendran

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EDUCATION

University at Buffalo   Buffalo, New York
Master of Science in Computer Science and Engineering   *Aug. 2024 – Present*

CEG Campus, Anna University   Chennai, India
Bachelor of Technology in Information Technology   *Jun. 2016 – Jun 2020*

EXPERIENCE

Software Development Engineer I   May 2022 – Jun 2024
Codestax.Ai   *Chennai, India*

- Mobile App Development: Developed and maintained mobile applications using React Native. Successfully delivered one application currently in production on both the Play Store and App Store. Managed all stages from development to deployment.
- Web Development: Designed and implemented responsive web applications using Vue.js, enhancing user experience and application performance.
- Backend Development: Built server-side components and APIs with Node.js. Utilized AWS services such as Lambda and DynamoDB for robust and scalable backend solutions.
- Cloud Services and CI/CD: Gained extensive experience with a variety of AWS services, exploring and integrating solutions to enhance application performance and scalability. Implemented CI/CD pipelines to automate deployment processes, increasing efficiency and reliability.
- Project Contributions: Successfully delivered one application to production, with two additional applications in User Acceptance Testing (UAT) and proof of concept (PoC) stages, demonstrating a strong ability to guide projects from inception through various phases.

Software Development Engineer I   Feb. 2021 – Mar 2022
Novalnet e-solutions Pvt Ltd   *Chennai, India*

- Admin Panel Development: Designed and implemented a robust admin panel using React, facilitating efficient management and control of backend processes. Ensured a user-friendly interface and seamless interaction for administrative tasks.
- CMS Development: Developed and maintained a content management system (CMS) using PHP and Zend Framework. Enabled dynamic content handling and easy content updates for end-users.
- Backend Development: Utilized Zend Framework to build scalable and maintainable backend systems. Integrated complex business logic and functionalities to support the admin panel and CMS.
- Database Management: Engineered and optimized database solutions using MySQL. Ensured data integrity, efficiency in data retrieval, and scalability for the application's growing needs.
- Cross-Functional Collaboration: Worked closely with cross-functional teams to gather requirements, troubleshoot issues, and implement features. Contributed to the overall improvement of system performance and user experience.

PROJECTS

Fabrics Management Application | *React Native, Vue js, Node js, Dynamo DB, HeidiSQL, AWS services* Jan 2024

- Overview: Developed a comprehensive mobile application designed to manage fabric inventory for sellers, encompassing a wide range of features and functionalities.
- Application Development: Led the development of a mobile application with approximately 60 to 70 screens, utilizing React Native to ensure a consistent user experience across both iOS and Android platforms.
- API Integration: Integrated 8 distinct API modules into the application, enabling seamless data exchange and functionality such as inventory management, user authentication, and reporting.
- Deployment: Successfully deployed the application to both the Play Store and App Store, overseeing the entire deployment process to ensure smooth and compliant releases on both platforms.

Clinical Trials Mobile Application | *React Native, Node js, AWS Services*   Aug 2023

- Overview: Developed a comprehensive solution for managing clinical trials related to cannabinoid gummies and oils, including both a mobile application for trial management and an admin panel for configuration and control.

- Admin Panel Development: Created an admin panel with Vue.js, providing administrators with the ability to configure and control the mobile application. Enabled dynamic adjustments to app features such as button colors, text, and other UI elements.
- API Integration: Implemented over 100 APIs to support various functionalities, including dynamic notifications, user management, and face verification. Ensured seamless interaction between the mobile app, admin panel, and backend services.
- Deployment and Maintenance: Oversaw the deployment of both the mobile application and the admin panel, ensuring successful releases on the Play Store and App Store. Provided ongoing support and updates to maintain system performance and reliability.

Core Banking Project | *Vue js, Node js, QLDB* Apr 2022
- Description: Developed and maintained key components of a core banking system focusing on wallet, home loan, and banking applications. These projects are currently in the User Acceptance Testing (UAT) phase and have been developed as proof of concepts.
- Technologies Used: Front-End: React Native and Vue.js were used to build responsive, user-friendly interfaces, ensuring seamless experiences across mobile and web platforms. Back-End: Node.js was utilized for server-side logic, handling requests, and integrating with various banking services. Amazon QLDB (Quantum Ledger Database) was employed for secure and immutable transaction records, ensuring data integrity and compliance.
- Outcome: These projects are on track to transition from proof of concept to production, with positive feedback received during the UAT phase. They are set to significantly enhance the digital banking experience, providing customers with reliable and efficient financial services.
- Deployment and Maintenance: Oversaw the deployment of both the mobile application and the admin panel, ensuring successful releases on the Play Store and App Store. Provided ongoing support and updates to maintain system performance and reliability.

mPay Project: Mobile Banking and Wallet Application | *Vue js, Node js, React Native, AWS services* Aug 2022
- Purpose: Developed as a proof of concept, mPay is a mobile application designed for a bank to facilitate seamless money transfers and includes wallet functionalities for both partners and customers.
- User Management: Implemented dynamic handling of premium and normal users, enabling the application to offer customized features and services based on user status.
- Technologies Used:
  * Front-End: Utilized React Native to create a cross-platform mobile application, ensuring consistent user experiences on both iOS and Android devices.
  * Back-End: Developed server-side logic using Node.js, managing transactions, user authentication, and integration with external banking services.
- Wallet Integration: Designed and integrated wallet functionalities for both partners and customers, allowing for easy storage, transfer, and management of funds within the application.

TECHNICAL SKILLS

Languages, Frameworks and Services: React Native, Vue js, Node js, MySQL, C/C++, Java, Aws services : Dynamo DB, Code Pipeline, QLDB etc.,
Certifications: AWS Cloud Practitioner