Velammal M

Software Developer

Building scalable and intuitive web and mobile applications using modern technologies like React Native and React.js. Passionate about crafting responsive, user-friendly interfaces and delivering seamless experiences through clean, maintainable code. With a proven track record of deploying applications on the Play Store and integrating advanced features, I thrive on solving complex problems and creating impactful solutions.

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in *https://www.linkedin.com/in/velam-pillai/*

Work Experience

Software Developer - Inometrics Technology Systems Pvt Ltd (Remote)

Since May 2023
Achievements / Tasks

- Developed and deployed over 6 mobile applications for clients including the TN-Forest Department and Green Tamil Nadu Mission, using React Native for cross-platform compatibility.
- Enhanced user experience by implementing intuitive user interface components and navigation features across all applications.
- Set up development environments for React Native applications using React Native CLI, including installation and configuration of tools and dependencies.
- Developed a progressive mobile app with offline-first functionality using SQLite for local data storage and service workers for caching. The app automatically syncs data with the server once the internet connection is restored, providing a seamless user experience even in low-connectivity scenarios.
- Integrated third-party libraries and APIs to add advanced functionalities to applications, such as QR code scanning, GPS tracking, and offline data storage.
- Collaborated with cross-functional teams, including designers and backend developers, to ensure seamless integration of front-end and back-end systems.
- Utilized React Redux for efficient management of transient app states across multiple projects.
- Implemented an offline-first approach using SQLite for local data storage, enabling apps to function without internet connectivity. Once the internet is restored, the apps automatically sync data with the server.
- Integrated multiple React Native modules, including react-navigation, react-native-vision-camera, and @react-native-async-storage/async-storage, to enhance app capabilities.
- Tested applications using Android Studio simulator and physical devices to ensure cross-platform compatibility and optimal performance.

Frontend Developer (Intern) - IT Systemhaus der Bundesagentur für Arbeit, Germany

02/2023-04/2023
Achievements / Tasks

- Implemented front-end features for displaying applicant names with varied formatting on the employer's page (Person Master Data Module).
- Created a reusable Angular pipe using TypeScript to dynamically format applicant names.
- Collaborated on writing automated user acceptance tests (UATs) using Cypress and contract testing frameworks.
- Gained familiarity with Jenkins and CI/CD pipelines, contributing to efficient deployment processes.
- Participated in daily stand-up meetings and Agile workflows, using Jira for task management and storyboarding.

Assistant Professor - The Oxford College of Engineering , India
02/2023-04/2023
Achievements / Tasks

- Lectured undergraduate students on Computer Science and Engineering subjects.
- Aided postgraduate students in analyzing their research.
- Received the 100% Result Award for Computer Graphics twice.
- Contributed to the design, development, and maintenance of the TOCE college website.

Technical Skills

- Programming Languages: JavaScript (ES6), TypeScript, HTML5, CSS3, SQL
- Frameworks & Libraries: React, React Native, Angular, Bootstrap, Tailwind CSS, Sass
- Tools & Platforms: Visual Studio Code, Git, GitHub, NPM, Netlify, Docker, Jenkins
- Databases: MongoDB, SQLite
- Testing: Cypress, Cucumber, Unit Testing, End-to-End Testing, Component Testing
- Other Skills: REST API, Fetch API, Node.js, Responsive Design, Offline-First Mobile App Design, Object-Oriented Programming (OOP), DOM, Debugging, UI/UX Design, JSON, Single-Page Applications (SPA)

Education

- **Further Training as a Web and Software Developer**
  Digital Career Institute GmbH, Germany
  2023
- **Master of Computer Science and Engineering**
  Annamalai University, India
  2004
- **Bachelor of Engineering in Electronics and Instrumentation Engineering**
  Manaommanium Sundaranar University, India
  2002

Additional Informations

- *Languages: English (Fluent), German (B1)*
- *Portfolio: https://velampillai-portfolio.netlify.app*
- *GitHub: github.com/VelamPillai*

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