

MRINAL RAI

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Skills Summary:

- **Frontend:** JavaScript, React, Next, HTML5, CSS3, Material-UI, Angular, Sass, Ionic, Cordova
- **Backend:** C#, .Net, Entity framework, SQL Server, SQL, Node, Express, MongoDB, Mongoose
- **Cloud Computing:** Azure, Azure DevOps, [AWS Certified Solutions Architect](#) and [Cloud Practitioner](#)
- **Other:** Java, Python, PySpark, PyTorch

Professional Experience

Full Stack Developer, Inovestor – Montréal, Canada

March 2023 - Present

Next, React, Typescript, .NET, C#, SQL Server, SQL, Azure, Docker, DevOps, React-Native, Expo, Storybook ladle

- Engineered a Next-based KPI Dashboard using material-react-table and Highcharts-react, delivering key operational insights through visualizations such as pie charts, line graphs, and gauges. Enhanced clients' decision-making by showcasing pickup completion rates, load volumes, and service agent performance.
- Developed a feature/plugin atop the React-Leaflet map, enabling users to select hundreds of collection sites in Canada at once by drawing a box with the cursor instead of manually selecting them, increasing data selection efficiency
- Orchestrated a streamlined three-step form for creating bulk service requests in multiple regions in Canada using React-Hook-Form and Yup for validation, resulting in increased efficiency & reduced input errors
- Constructed robust API endpoints using .NET Core and Entity ORM, facilitating seamless data retrieval and updates from SQL Server with complex LINQ queries, and managing image uploads/downloads to Azure Storage.
- Implemented CI/CD pipelines for the automated deployment of projects across multiple environments using Azure DevOps.
- Developed a serverless solution in Azure that fetched and processed over six months of PickUps and CollectionSite data from an external vendor, ensuring data synchronization between the client and its multiple vendors.
- Utilized Azure resources such as Durable Functions, Docker, and EventGrid, along with a machine learning model to predict optimal load pickup dates and routes based on historical data, resulting in substantial cost savings for clients by increasing driver productivity and efficiency.
- Led the takeover of a React-Native project built on Expo, resolving bugs and upgrading libraries to improve app stability and performance, making it ready for consumer usage.

Frontend Developer, Infosys – Bengaluru, India

July 2018 - July 2021

React, Redux, AWS, Salesforce, Lokalise, Angular, Ionic, Cordova, Kibana, AppDynamics

- Architected a robust frontend architecture in React, integrating with Salesforce via Canvas API for an Agronomic Recommendation System, boosting sales of chemical products by enabling client to create product recommendations for farmers
- Designed and implemented a proof-of-concept interactive Drag-and-Drop tool in React, allowing users to provide detailed chemical usage information, enhancing user experience and data accuracy
- Enhanced application functionality by integrating Lokalise and React-PDF, generating multilingual PDF recommendations and empowering business owners to share recommendations via Amazon SES, increasing customer outreach.
- Integrated Google APIs and moment.js to display real-time, historical, and forecasted weather data across Chrome, Internet Explorer, iOS, and Android platforms, helping farmers make informed decisions and improving crop management efficiency.
 - Enabled farmers to manage their fields better and make data-driven decisions on crop growth by incorporating accurate weather data, leading to an improvement in crop yields.

Personal Projects

WordWallet

A three-tier web application that collects user inputs via neumorphic mobile and web responsive UI made using HTML5, CSS3, and JavaScript. REST API is made using MongoDB, Node, Express, and Mongoose.

Education

Concordia University – Montréal, Canada

September 2021 – April 2023

Masters of Applied Computer Science

SRM University – Chennai, India

July 2014 - May 2018

Bachelor of Technology in Computer Science and Engineering