

RAVI KUMAR

Senior Software Engineer | LinkedIn

+ SENIOR FULLSTACK ENGINEER

5+ years of experience in developing, deploying and productionizing full-stack web applications for clients such as Marriott International and Lloyds Bank, UK. Improved user experience and codebase performance with comprehensive accessibility and security.

My experience has been built on different types of projects, from small to large-scale, and I have been able to deliver high-quality and performant code. I have been leading a team of developers to deliver a complex and high-traffic web application. I have also been responsible for mentoring junior developers and conducting code reviews.

+ WORK EXPERIENCE

Publicis Sapient Senior FullStack Developer

June 2021-present | Remote

Client1 - Marriott International

- Led the creation of fully functional website from scratch for Marriott international hotels with features like search and booking
- Optimized performance by a hybrid React approach for dynamic components and AEM for static components (plain js/css)
- Developed a Micro-Frontend application using NodeJS and React with server side rendering (SSR), used lerna for monorepo management and plop for code generation
- Reduced debugging time by 25% with meticulous use of Chrome Dev Tools, Jest, and React Testing Library
- Ensured 20% improvement in web accessibility(508/a11y), utilized WAVE and Axe-dev tools for testing web app accessibility
- Optimized codebase for NFRs (performance, accessibility, security)
- Worked with cross-functional teams, product owners, clients to create a world class user experience
- Managed QA, UAT and Production environments with precision
- Contributed to development of in-house products like Competency initiative and Statty - XT trainings tracker
- Tech Stacks Used: React.js, NextJS, Typescript, NodeJS, Microfrontend, AWS

Client2 - Lloyds Bank, UK

- Perform full cycle development with a sound understanding of the business end goal and takes ownership of the deliverable from development to deployment with a sound understanding the requirements & design
- Uplifted old internet banking web applications from scratch till deployment using ReactJS, Zustand, Redux and React Context Api
- Developed new features or maintain old features using ReactJS for writing reusable components for various modules
- Designed and implemented application architecture and deployed on Openshift, Azure DevOps
- Integrated JWT/SCA authentication, API-C microservices, frontend into JSP, Adobe analytics tagging
- Established CI/CD pipelines using Docker, Nginx, Kubernetes & Jenkins
- Experienced working with production monitoring tools such as Dynatrace, Splunk and CyberArk
- Conducted e2e automation testing with Cypress and Cucumber
- Lead front-end team and conducted code reviews and provided constructive feedback to team members to improve code quality and maintainability
- Collaborated with stakeholders, UX designers & PO to ensure all goals are met as per product timelines
- Gathered client requirements, creating product delivery timelines and estimated required effort
- Tech Stacks Used: React.js, Typescript, NodeJS, Microfrontend, Webpack, CI/CD

+ CONTACT

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+ LANGUAGES

JavaScript/Node.js (ES6+)

TypeScript

Python

HTML/CSS

+ FRONTEND

React.js, Redux/Toolkit/Thunk/Saga, Zustand, NextJS, Microfrontend, GraphQL, Websocket, Webpack, Sass(scss), Styled-components, Tailwind, Jest, React Testing Library, Enzyme, Cypress (Automation Testing), Lighthouse

+ BACKEND

Express.js, Node.js, Loopback, Rest/SOAP APIs

+ DEVOPS

Docker, Kubernetes, Azure, AWS, Openshift (OCP), Jenkins, UCD, Nginx

+ TOOLS

Git, Postman, JIRA, Confluence, Bitbucket, Dynatrace, Splunk, CyberArk

+ DATABASES

IBM DB2, MongoDB, MySQL

+ INTERESTS

I **learn** about web and startups.

I **dominate** in stock market (derivatives trading), chess.

I **love** fitness, travelling and reading books.

- Developed a dynamic dashboard that empowers users to analyze real-time social media trends and sentiment using React/Redux/Bootstrap and other React ecosystem libraries.
- Build interactive charts, graphs, and visual representations of sentiment analysis results powered by websocket.
- Involved in full development cycle of Planning, Analysis, Design, Development, Testing and Implementation.
- Tech Stacks Used: React.js, Redux, Typescript, Bootstrap, Websocket.

AGNEXT - IIT Kharagpur Machine Learning Researcher

Feb 2019 | Mohali, IN

- Research design and productionize computer vision algorithms (Object Detection, Instance Segmentation, Classification, etc) for real-time inference on image and video data
- Developed deep learning solution for tea leaf detection and grains segmentation (wheat, rice, moong etc.) with 90%+ accuracy
- Developed Automatic Annotation Tool for grains segmentation images data preparation, reduced annotation time by 80%
- Integration and deployment of deep learning models on Jetson TX2/Nano, GCP
- Worked directly with CTO and collaborated on hardware designs
- Exposure in terms of client interaction to discuss the status of product

INKERS Deep Learning Research Intern

Sep 2018 | Bengaluru, IN

- Research on CNN, DNN, YOLO for computer vision
- Implemented DenseNet (BC 100-12 40-12) architecture from scratch
- Achieved state of the art result on CIFAR10 data with augmentation, used Lrscheduler

+ PROJECTS

Flipkart Clone

React, Redux, Node.js, Express, MongoDB, Bootstrap

- **Flipkart Clone**, an ecommerce platform build on top of **MERN** stack comes with both user and admin portal
- User and admin authentication using **JWT**, state managed by **Redux**
- Implemented database design, API, Protected routes

Facebook Clone

React, Material-UI, Context-API, firebase

- Developed a social media **website** using React with ability to post messages, pictures, gifs in real-time and authentication using google
- Used react **Context API** for state management

Netflix Clone

- Built a fully responsive **Netflix Clone** using React (Custom Hooks, Context, Portals), Firebase, Compound & Styled Components

Grains Segmentation

- Python application that can segment and classify rice grains (overlapped/touched)
- Implemented Mask RCNN using mmlab detection for instance segmentation, ResNet 101 as backbone
- Created rice grain images dataset and annotated on VIA tool

Tea Profiler

- Built end to end deep learning solution for leaf detection (object detection) and video processing
- Yolo V3 (darknet) for leaf detection trained on Nvidia 1080 Ti
- Worked on rest api and deployed on google cloud platform

Various UI Clones

- **Airbnb**
- **Discord**
- **Hulu**

+ EDUCATION

Techno India, Salt Lake

B.Tech, Computer Science

Sept 2014 - 2018