

# RAJAS MAHAJAN

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## EXPERIENCE

### Solutions Developer

Sankey Solutions

June 2023 - July 2024

Thane, India

- Developed 2 strategic features using React.js and Node.js for a women-only entrepreneurial platform: **LMS integration (Moodle)** and **Stripe payment workflow**
- Implemented an NLP-driven **sentiment analysis pipeline** for 5000+ quarterly course reviews; improved review insights turnaround time while reducing **manual analysis hours by over 60%**
- Built scalable **Spring Boot** microservices for vehicle parts ordering system for a major Indian motor company; **optimized REST APIs to reduce latency by 30%** and support VIN- and QR-based part lookups
- Engineered front-end modules in React.js for 3D part visualization, using **WebGL and Three.js**
- Configured end-to-end field service workflows in JavaScript and built **intuitive mobile app interfaces using Vue.js** for a field service engineering platform
- Integrated AI automation modules, linking configurable AI components and ERP/CRM/EAM systems to enable predictive dispatching, asset tracking and context-aware task assignment in real-time

### Co-founder/Technical Lead

Hari Om Thalassic

January 2022 - June 2024

Mumbai, India

- Co-founded the technology division of an existing maritime business **during undergrad**, leading the **digitization of legacy paper-based operations** into scalable web-based systems under the same LLC structure
- Spearheaded migration from manual paper files to a **secure internal portal** using React.js, Node.js and AWS S3 to digitize seafarer documentation, **cutting processing time by 80%**
- Maintained platform reliability using **Kanban workflows**, implemented CI/CD pipelines for staging and production deploys and **upheld 99.9% uptime** during peak recruitment cycles
- Designed the company [website](#) and led a team of 2 interns throughout the development process
- **Led competitor analysis across 5+ maritime service platforms**; identified workflow gaps to shape the product roadmap and improve candidate retention

## PROJECTS

**MoodSip**: An Android app to log hydration and meals while tracking mood and energy. Integrated AI-driven insights, mood-energy impact analysis of specific meals, personalized reminders and weather-based hydration goals.

**Technology**: Kotlin-Jetpack Compose, Firebase, Retrofit, OpenAI API

**Tumor Detection**: Built a deep learning pipeline for tumor detection using liver segmentation on 4,000+ CT scans, using MONAI to account for domain-specific imaging properties often overlooked by traditional vision libraries. Developed U-Net and Attention U-Net ensemble models, achieving a tumor detection accuracy of 95.7%.

**Technology**: Python, MONAI, Pytorch, CUDA, Seaborn

## SKILLS

Languages	Java, JavaScript, TypeScript, Kotlin, Python, SQL, C++, C, HTML, CSS, R
Frameworks	React.js, Node.js, Spring Boot, Vue.js, Flask, React Native, Bootstrap
Toolkits and Databases	Git, Cloud Run, AWS[S3, EC2], Docker, MySQL, MongoDB, Maven, Gradle, Jira

## EDUCATION

### King's College London

Master of Science, Computer Science (Advanced Computing) — **1:1 Distinction**

Expected 2025

### Mumbai University

Bachelor of Engineering, Computer Engineering — **9.06/10**

2019 - 2023