

# MAHARJAN RAJAN

## SOFTWARE ENGINEER

Crafting Cutting-Edge Web and Mobile Solutions with Expert JavaScript Engineering

## PROFILE

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A passionate JavaScript Engineer, with over 8 years of expertise in building impactful solutions across diverse domains like IoT, Renewable Energy, Health Tech, FinTech, and Crypto. Skilled in modern JavaScript technologies and libraries, including advanced techniques in AI and ML Kit. I am committed to advancing sustainable technology, focusing on projects that positively impact society and foster a more sustainable future.

## SKILLS

- **Advanced JavaScript:** ES6+, TypeScript, Asynchronous Programming
- **Fronted Frameworks:** React, React Native, Next.js, Remix.js, Angular, Vue.js
- **UI/UX Design:** Figma, Adobe Photoshop, Sketch
- **AI in Frontend Development:** TensorFlow.js, Brain.js, ML5.js (for integrating machine learning models with React applications), MLKit (for on-device machine learning in mobile applications)
- **Backend Development:** Node.js, Express.js, Python (Django), RESTful APIs, GraphQL
- **Testing and Quality Assurance:** Jest, Mocha, Chai, Cypress
- **Build Tools and CI/CD:** Webpack, Babel, Gulp, Jenkins, GitHub Actions

## EXPERIENCE

### REACT NATIVE MOBILE ENGINEER

#### SunPower Corporation

May 2022 - Present

- Developed and enhanced commissioning and monitoring apps ProConnect and mySunPower App, improving workflows for 1,000+ users and reducing onboarding time by 40%.
- Contributed to a 20% increase in system efficiency by optimizing IoT device integration using BLE and WiFi modules.
- Reduced deployment times by 30% and cut GitHub Actions billing by 25% through automated testing in CI tools.
- Created a Scanner Component in React Native, saving \$150,000 annually by scanning multiple QR and barcodes simultaneously.
- Supported legacy Cordova apps, enhancing stability and performance, and reducing maintenance time by 25%.

### GRADUATE STUDENT DEVELOPER

#### Kent State University

Jan 2021 - May 2022

- As a Graduate Student Developer, I worked on various research projects to build web applications and mobile applications from scratch.
- Immersive Educational Experience: NSF funded the XRi project; a system designed to provide immersive educational experiences using extended reality technology.
- Work on different STEM Teaching and Learning apps
- Tech Stack: React.js, React Native, Python, Babylon.js

- **Containerization:** Docker, Kubernetes
- **Performance Optimization:** Code Splitting, Lazy Loading, Efficient State Management
- **Version Control:** Git, Git Flow, GitLab
- **Database Management:** SQL (PostgreSQL, MySQL), NoSQL (MongoDB)
- **Cloud Services:** AWS, Google Cloud
- **Web Security:** OWASP, JWT, OAuth, PING Identity Management
- **Monitoring and Analytics:** Sentry (for error tracking and monitoring), Mixpanel (for user analytics and engagement), Firebase Analytics (for tracking user behavior and app performance)
- **IoT Technologies:** GPS, Bluetooth Low Energy (BLE), WiFi Modules
- **Protocols and Communication:** Protocol Buffers (protobuf), WebSocket, gRPC, MQTT
- **Leadership and Mentoring:** Code Reviews, Technical Leadership, Agile Methodologies

## EDUCATION

### MS, COMPUTER SCIENCE

Kent State University  
Kent, OH, USA  
May 2022

### BE, COMPUTER ENGINEERING

Kantipur Engineering College;  
Affiliated to Institute of Engineering (IOE)  
Lalitpur, Nepal  
Dec 2014

### SR. SOFTWARE ENGINEER

Oyster Financial, Inc

Apr 2019 - Jan 2021

- Worked here as a full-time outsourced contractor through BitsBeat; developing a financial platform for freelancers, startups, and SMBs in Mexico
- As Lead Developer for a Credit Frontend Team of 5 members
  - Worked with the Project Owner and Management team to finalize requirements and set sprint goals, ensuring alignment with business objectives for Oyster: Credit Web App and Mobile App
  - Engage closely with the design team to develop UI/UX that met project specifications and provided a seamless user experience, and collaborate with backend developers for API integration, ensuring efficient data flow and overall application performance.
  - Mentored junior developers, conducted code reviews, and maintained high standards for code quality and best practices.

### SR. REACT (NATIVE) DEVELOPER

BitsBeat IT Solution

Dec 2018 - Jan 2021

- Built React Native applications like XcelTrip with clean, efficient code. Implemented pixel-perfect UIs with smooth animations and transitions.

### SR. JAVASCRIPT DEVELOPER

Peace Nepal DOT Com

Dec 2016 - Jan 2018

### JAVASCRIPT DEVELOPER

Spark Technology

Sep 2015 - Dec 2016

### DATABASE ENGINEER

Oval Analytics

Nov 2014 - Sep 2015

## CERTIFICATIONS

React Native, Node.js Microservices, Building Bots with Node.js,  
Kubernetes, edX MEAN Stack

**Interest:** Engaging in open-source projects focused on giving back to society. Check out my portfolio website [mrajan.com.np](http://mrajan.com.np) for details on these projects and their impact.