





# RAJAN MAHARJAN

## SOFTWARE ENGINEER

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

### CONTACT

-  234-226-3205
-  rajanmaharjanmails@gmail.com
-  [www.mrajan.com.np](http://www.mrajan.com.np)
-  Austin TX, USA

### 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), Bablylon.js, 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
- **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 Managemen
- **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

### PROFILE

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 AI and ML Kit techniques. I am committed to advancing sustainable technology, focusing on projects that positively impact society and foster a more sustainable future.

### WORK EXPERIENCE

#### React Native Mobile Engineer

SunPower Corporation

2022-Present

- As a Mobile Engineer, I with my team apply our expertise to develop new improved commissioning and monitoring apps for SunPower customers, dealers, and installing partners, that streamlined workflows for over 1,000 users and cut onboarding time by 40% through intuitive design.
  - Users now connect and configure devices directly via a smartphone using the **ProConnect App**
  - **mySunPower App** offers convenient information about and control over your SunPower home solar power system after they are fully commissioned
- Contributed to a 20% increase in system efficiency through optimized design and integration of IoT devices during commissioning using Bluetooth Low Energy (BLE) and WiFi modules.
- Reduced deployment times by 30% and decreased billing minutes for GitHub Actions by 25% through effective use of automated testing in CI tools.
- Developed a Scanner Component in React Native using open-source libraries to scan multiple QR and barcodes simultaneously, resulting in annual savings of approximately \$150,000 for the company.
- Coordinated with the firmware team to resolve existing issues, resulting in a 15% decrease in commissioning time, and also refactored the firmware update process, improving update efficiency and duration.
- § Supported legacy Cordova applications by updating various outdated packages, which improved stability and performance, and facilitated the transition to modern technologies, resulting in a 25% reduction in maintenance time.

#### Graduate Student Developer

Kent State University

2021-2022

- 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

- **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

2021-2022

**BE, Computer Engineering**

### Kantipur Engineering College

Affiliated to Institute of Engineering (IOE)

Kathmandu, Nepal

2010-2014

---

## LANGUAGES

English

Nepali

Hindi

---

## 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.

## Sr. Software Engineer

Oyster Financial, Inc

2019-2021

- 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

2018-2021

- Built React Native applications like XcelTrip with clean, efficient code. Implemented pixel-perfect UIs with smooth animations and transitions.
- Managed app preparation and release processes for the Apple App Store and Google Play Store while leading a team of React Native developers. This involved participating in two-week sprints, daily standups, and sprint retrospectives.
- Actively contributed to the React Native developer community by sharing knowledge and providing support to peers.

## Sr. JavaScript Developer

Peace Nepal DOT Com

2016-2018

- Developed healthcare applications for USA-based clients using React.js, React Native, and Node.js, focusing on on-demand house calls and scheduling systems. Gained extensive knowledge of U.S. healthcare systems and managed complex design projects remotely with senior developers.
- Handled infrastructure provisioning (EC2, S3, ELB, IAM) and server setups (Ubuntu, Amazon Linux), and implemented autoscaling, CloudWatch monitoring, and S3 storage solutions.
- Created and managed a cryptocurrency auto-trading application, acquiring a deep knowledge of cryptocurrencies and mentoring junior developers.

## JavaScript Developer

Spark Technology

2015-2016

## Database Engineer

Oval Analytics

2014-2015