Mohan Pradhan

205 Spruce Street, Vermillion, SD 57069

📞 605-740-4994 ✉ mohanpradhan628@gmail.com 💼 LinkedIn: emoueitchaien GitHub: emoueitchaien

Education

University of South Dakota	**Aug 2024 – Dec 2025**
Master of Science in Computer Science	*Vermillion, South Dakota*

Amrit Campus, Tribhuvan University	**Nov 2017 – Oct 2021**
Bachelor of Science in Computer Science and Information Technology	*Kathmandu, Nepal*

Manimukunda College	**Jul 2015 – Aug 2017**
+2 Science Stream	*Butwal, Nepal*

Relevant Coursework

- Algorithm Analysis
- Data Structures
- Software Methodology
- Database Management
- Operating Systems
- Computer Architecture
- Artificial Intelligence
- Statistics and Probability

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C, C++

Technologies/Frameworks: HTML, CSS, SCSS, Bootstrap, Tailwind CSS, MERN Stack (React, Node.js, Express, MongoDB), React Native CLI, Next.js, Django, SQL, Docker, PM2, Swagger

Developer Tools: Windows, Linux, VS Code, Android Studio, Git, GitHub, GitLab

Design Tools: Figma, Adobe Illustrator, Photoshop, Canva

Architectures/Principles: MVC Architecture, Component-Based Architecture, Context API, Redux, HOCs, DRY and KISS Principles

Soft Skills: Teamwork, Time management, Creative thinking, Communication, Decision making, Problem solving

Experience

ASM Global LLP	**Oct 2023 – Jul 2024**
React Native Developer	*Remote*

- Developed robust cross-platform mobile applications using React Native CLI, specifically tailored for efficient and sustainable waste management, facilitating the seamless digitization of the end-to-end supply chain for the collection, transportation, processing, recycling, and the sale of valuable recycled materials.
- Enhanced the application's user experience by optimizing load times and ensuring smooth navigation, resulting in a 25% increase in user satisfaction scores based on client feedback.
- Resolved critical bugs and implemented updates that reduced system downtime by 40%, ensuring higher operational efficiency for end users.

Ayata Incorporation	**Aug 2022 – Nov 2023**
Full-stack Engineer	*Kathmandu, Nepal*

- Designed and developed an Admin Dashboard and Content Management System for Online Educational Platforms and EHR systems using front-end technologies such as React, Typescript, Tailwind, and Chart.js.
- Successfully scaled and maintained back-end systems for a Learning Management System (LMS) and Electronic Health Record (EHR) system, ensuring 99.9% uptime and improved query performance by 30% through optimized database indexing.
- Implemented an analytics module that allowed administrators to visualize user engagement metrics, increasing platform adoption by 15%.
- Streamlined deployment workflows using PM2 and DigitalOcean, reducing deployment times by 30%.

Optimum Futurist Pvt. Ltd.   **Apr 2022 – Jul 2022**
Software Engineer Trainee   *Kathmandu, Nepal*

- Built portfolio sites, e-commerce web apps, and employee management systems using the MERN stack, gaining practical experience in full-stack development.
- Collaborated with a team of fellow interns following the Agile methodology of development and SCRUM, leading to the successful completion of all assigned sprint tasks ahead of deadlines.
- Contributed to the development of an employee management system that streamlined internal HR processes, reducing administrative workload by 20%.

Projects

Ocean Integrity, Waste Management App | *React Native CLI, Redux, REST APIs, JWT, GPS*
- Built cross-platform waste management apps using React Native CLI with real-time data capture, GPS tracking, and route optimization.
- Designed modules for managing waste processing, material categorization, and recycling data with REST API integration, secure authentication, and Redux state optimization.

Asha Connect, EHR App | *React, Node.js, Express, MongoDB, Chart.js*
- Developed Asha Connect's backend with Node.js for secure and efficient medical data handling, and optimized MongoDB schemas for high-performance data management.
- Enhanced the front-end with React for a user-friendly interface, integrating Chart.js for clear analytics visualization to support health workers in real time.

Name Online, e-Learning App | *React, Redux, Chart.js, Node.js, Express, SQL, Sequelize*
- Built a CMS for admin users with React and Redux, streamlining course material, quizzes, and user interaction management, with dynamic visualizations using Chart.js.
- Developed a robust backend with Node.js and SQL, enabling reliable data management, discussions, polls, and payment integration to enhance the user experience.

Leadership / Extracurricular

ASCOL IT Club   **Dec 2019 – Apr 2021**
Executive Member   *Amrit Campus*

- Conducted workshops on Web Development, Python, Git, and more, enhancing participants' technical skills.
- Hosted industry professionals for talks, offering insights into real-world tech applications and networking.
- Organized events and managed logistics, fostering engagement and a supportive club culture.

Arghakhanchi Popular English Boarding School   **2015**
Volunteer Teacher   *Arghakhanchi, Nepal*

- Volunteered to teach primary-level students across various subjects, fostering a supportive and engaging learning environment.
- Developed and implemented lesson plans tailored to students' needs, enhancing their understanding and enthusiasm for learning and improving academic performance.