

# MANOJ LAMICHHANE

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## SKILLS AND CERTIFICATES

**PROGRAMMING LANGUAGES** HTML, CSS, JavaScript, JAVA, SQL

**FRAMEWORKS/LIBRARY** React JS, Next JS, NodeJS, Express JS, Spring Boot, TAILWIND CSS,

**DATABASES** MYSQL, MongoDB

**VERSION CONTROL TOOLS** JIRA, GitHub, Git, Confluence

**OTHER TOOLS** docker, docker hub, react hooks, redux, context API & redux toolkit for state management, Axios, Excel, ES6

**AWS CERTIFIED CLOUD PRACTITIONER** AMAZON WEB SERVICES

**BUILD PRODUCTION READY REST API IN SPRINGBOOT** UDEMY

**NODE JS, EXPRESS JS, MONGODB** UDEMY

## PROFESSIONAL EXPERIENCE

ASSOCIATE SOFTWARE ENGINEER, DEERHOLD LTD

DECEMBER 2020 – DECEMBER 2021

- Involved in UI development using React.js for visually appealing and responsive web applications
- Collaborated with designers for seamless frontend design implementation
- Applied a component-based development approach for modular, reusable and maintainable UIs for a consistent cross-device experience
- Managed state in React applications using Redux to handle global state efficiently
- Integrated frontend with backend services and APIs, ensuring data flow and consistency with data fetching and updates
- Proficient in unit testing with Jest and React Testing Library, troubleshooting and debugging for issue resolution
- Mastered React.js core concepts, lifecycle methods, and hooks for efficient development.
- Used Git for version control, facilitating collaboration and codebase management
- Cultivated a commitment to continuous learning, staying current with React trends and practices with AWS cloud services
- **Skills learned:** ReactJS, Redux, Context API, react hooks, git, GitHub, AWS S3, AWS CodeBuild, AWS CodePipeline

## PROJECTS

### E-COMMERCE WEBSITE

<https://products-cart-wheat.vercel.app>

- Originally started as a project for software engineering course but later improvised on my own
- Added pagination, sorting, JWT security to an existing backend built upon Express.js framework from Node.js
- Learned structure of the use code professional in real-time projects and implemented MVC pattern
- Improvised frontend by creating a new application in NextJS with typescript, learned client server architecture
- Component based UI development utilizing Tailwind CSS, unit testing with JEST and react testing library
- Learned stripe and implemented Stripe payment and checkout session
- Acquired skills in web application development through hands-on experience with a Next.js-based application featuring technologies such as Express.js, MongoDB, Stripe, JWT, NextAuth.js, chartJS, AWS RDS

### RESTFUL API BASED IN SPRING BOOT

- Started as a project for Distributed Software system, it was limited to a topic related to the courses and was minimal
- Learnt the industry practice about Spring Boot and backend development using Spring Boot through an online course
- Developed a backend featuring RESTful APIs utilizing Spring Boot, MySQL DB, and Spring Security with sorting, paging and CRUD functionalities in a MVC pattern
- Understood Spring Boot, MySQL DB, Spring Security, Swagger UI for API documentation, Docker, AWS RDS, AWS CodeBuild, AWS CodePipeline for continuous integration and continuous deployment (CI /CD)

### AGROVISION

- Application that utilizes AWS AI service to recognize the image and generate a custom label based on that
- Learned to train the model and to create custom label for the same using Amazon Rekognition Custom Labels

- AWS SDK integration with NodeJS backend
- Creation of RESTful apis for easy access to the user.

## **CONTENT DELIVERY NETWORK**

- Content delivery network for streaming videos with a network of Origin server, Edge server and Nginx load balancer.
- Learned networking protocols such as TCP/IP, UDP
- Implemented Servers using Express JS with HTTP/2 protocol using SPDY library.
- Self-signed certificate and key generated using OpenSSL for HTTP/2
- Configured Google Storage Buckets as storage for edge servers.

## **EDUCATION**

**JANUARY 2022 – DECEMBER 2023 [EXPECTED]**

**MASTER OF ENGINEERING, ELECTRICAL AND COMPUTER ENGINEERING, CONCORDIA UNIVERSITY**

- Focus on Computing Systems, Communication Systems and Network
- Major course: Software Engineering, Higher Layer Telecommunication Protocol, Distributed Software Systems, Programming in the cloud
- GPA 3.61/4.30