Kapil Parajuli

Kathmandu, Nepal

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Summary

Detail-oriented Developer with a strong foundation in web development and a passion for building user-centric applications. Known for exceptional problem-solving, time management, and the ability to collaborate effectively in diverse teams.

Education

Lalitpur Engineering College   **2021 − 2025**
Bachelor in Computer Engineering   *Lalitpur, Nepal*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

Experience

Golyan Group   **May 2025 − Present**
Web Developer

- Engineered and maintained the corporate website with a focus on responsive design, accessibility, and optimized user experience.
- Developed internal web solutions, including a meeting hall booking system and contract renewal tracker, enhancing operational efficiency.
- Managed end-to-end deployment of applications on company servers, including configuration, monitoring, and server-level troubleshooting.
- Gained hands-on experience working with Odoo-based ticket management system and SharePoint technology stack.
- Acquired deep expertise in server-side technologies, deployment workflows, and enterprise IT infrastructure management.
- Collaborated with cross-functional teams to translate business requirements into scalable, integrated web applications.

Next Coach   **Feb 2025 − May 2025**
Backend Developer Intern

- Developed and maintained backend services using Node.js and Prisma for efficient database management.
- Implemented authentication and authorization mechanisms using JWT and cookies to enhance security.
- Integrated live class and chat functionality using Jitsi and Socket.IO for real-time video conferencing and messaging.
- Worked on payment integration to enable seamless transactions for subscriptions and course enrollments.
- Developed and optimized RESTful APIs to handle client requests and integrated third-party services.
- Improved database queries and indexing for better performance and scalability.
- Created and maintained API documentation using Swagger to ensure clarity and ease of integration for frontend developers.

Projects

NestBank – Backend for Core Banking System | *NestJS, TypeORM, PostgreSQL, JWT*   **April 2025**

- Designed and developed a scalable banking backend system with modular architecture using NestJS and TypeORM.
- Implemented secure user authentication and authorization with JWT, including KYC verification logic before account access.
- Built dynamic account and transaction modules supporting multiple account types and interest rate configurations.
- Structured RESTful APIs for operations such as account creation, fund transfer, transaction history, and balance inquiry.
- Used TypeORM with PostgreSQL to handle complex relational data models and ensure data consistency and performance.

DDoS Attack Detection and Mitigation in SDN | *Python, Mininet, XGBoost, Ryu Controller*   **March 2025**

- Developed a machine learning-based detection system using XGBoost to identify DDoS attacks in an SDN environment.
- Implemented a multi-controller SDN architecture using Mininet and Ryu to ensure network resilience and effective flow management.
- Integrated real-time mitigation by dynamically updating flow rules based on model predictions to isolate malicious traffic.
- Achieved high detection accuracy with minimal latency, enhancing overall network security during simulated attack scenarios.

EduApp | *React Native, Expo, Node.js, MySQL*   **January 2025**

- Developed a mobile application tailored for schools, providing distinct interfaces for teachers and parents.
- Implemented real-time data synchronization and secure backend services using Node.js and MySQL.
- Designed and optimized a user-friendly interface to ensure seamless navigation and functionality on various mobile devices.
- Utilized React Native's state management techniques and Expo for efficient development and deployment.

- Integrated real-time chat functionality using Socket.io, enabling instant communication between teachers and parents.

Job Search Web app | *HTML, CSS, React.js , Node.js, MongoDB* **July 2023**
- Built a fully functional job search web application using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Implemented user authentication (login/signup) and profile management features for improved security and user experience.
- Integrated RESTful APIs to provide job search functionality with filtering and sorting features based on user preferences.
- Ensured responsive design for seamless mobile and desktop usage, improving user engagement and accessibility.

Jodi Finder | *HTML, CSS, React.js, Node.js, MongoDB* **May 2023**
- Built a matchmaking platform using the MERN stack, connecting individuals based on shared interests.
- Developed an intelligent matching algorithm to suggest compatible users for better connections.
- Focused on crafting an easy-to-navigate, responsive interface for an optimal experience on all devices.
- Integrated advanced filters to allow users to refine search results based on preferences like age, location, and interests.

Technical Skills

Languages: JavaScript/TypeScript, C/C++, C#
Developer Tools: VS Code, Postman, Swagger
Databases: MongoDB, MySQL, PostgreSQL
Cloud Technologies: AWS, Firebase, Cloud Panel
Additional Technologies: GitHub, Prisma, WordPress, LaTeX