


Yuvraj

Software Engineer

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PROGRAMMING LANGUAGES

C++ Python Java

JavaScript MATLAB SQL

Typescript

WEB TECHNOLOGIES

ReactJs NodeJs NextJs

ExpressJs HTML CSS

TOOLS AND PLATFORMS

Git MySQL

MongoDB Kubernetes

AWS (DynamoDB, EMR, S3, EC2, IAM) PostgreSQL

Redis

AREAS OF INTEREST

Data Structures and Algorithms Operating System

Database System Design

Computation Theory Robotics

INTERESTS

Photography Cycling

Teaching

AWARDS

Certificate of Appreciation (May 16, 2022)

Received certificate for developing a Marking System to maintain safe distances in crowded places during COVID-19.

Experienced software engineer with a unique blend of skills. Two years of research experience in robotics, mechanical design, and software development, followed by nearly one year of hands-on internship experience in web development.

WORK EXPERIENCE

Royal Menfolk

Software Engineer Intern

(September 01, 2023 - Present)

- Developed backend solutions using Node.js and Express.js, optimizing data flow and implementing efficient server-side logic.
- Created RESTful APIs for improved communication between frontend and backend systems.
- Utilized Next.js for server-side rendering, enhancing website speed and user experience.
- Integrated MySQL and MongoDB databases for data storage, ensuring scalability and performance.
- Implemented JWT authentication for secure user authentication and authorization processes.

PEC

Research Assistant

(August 02, 2021 - August 31, 2023)

- Optimized robotic arm functionality through software and mechanical design enhancements.
- Contributed to the development of an automatic road lane marking system using computer vision.
- Led the prototyping efforts for the road lane marking system, demonstrating technical proficiency and innovative problem-solving skills.
- Collaborated with multidisciplinary teams to integrate mechanical, electrical, and software components for project success.
- Developed algorithms and software solutions to enhance the functionality of a Prosthetic arm, showcasing expertise in software development and robotics.

PROJECTS

Expense Tracker

- Developed an expense tracker app using HTML, CSS, JavaScript, Next.js, Node.js, Express.js, and MongoDB.
- Ensured a seamless user interface and dynamic features with Next.js on the frontend.
- Implemented secure server-side logic and API integration using Node.js and Express.js on the backend.
- Used MongoDB for efficient storage and management of user expense data.
- Implemented authentication and authorization features for data privacy and security.
- Followed best practices in software development for a scalable and maintainable codebase.

Basic Chat Application

- Developed a real-time chat app using Next.js, Node.js, Express.js, and MongoDB, with WebSocket for instant messaging.
- Designed a responsive frontend with HTML, CSS, and Next.js, and implemented JWT for secure authentication.
- Optimized MongoDB for efficient data storage and retrieval, ensuring scalability and performance.

EDUCATION

Punjab Engineering College (PEC)

Bachelor of Technology, Mechanical Engineering

(August 01, 2017 - May 15, 2021)

 <https://pec.ac.in/>