

Sankalp Sunil Kadam

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SKILLS

Python | JavaScript | MySQL | TypeScript | Java | React.js | Next.js | Node.js | Express | Flask | HTML | CSS | Bootstrap | Tailwind | Figma | MongoDB | REST API | Firebase | Git | Github | Hadoop | XML | Linux | Postman

EDUCATION

University of Texas at Arlington

Arlington, Texas

Master of Science, Computer Science (GPA: 3.9)

August 2022 – May 2024

Courses – Cloud computing and Big Data, Machine Learning, Neural Networks, Artificial Intelligence, Design and Analysis of Algorithms, Data Analysis and Modelling Techniques, Distributed Systems, Software Design Patterns

University of Mumbai

Maharashtra, India

Bachelor of Engineering, Computer Engineering (CGPA: 9.5)

August 2018 – May 2022

WORK EXPERIENCE

PNT Robotics and Automation Solutions LLP

Maharashtra, India

Software Engineering Intern

December 2020 – May 2021

- Enhanced the efficiency of the backend API by integrating PHP Laravel and **MySQL** and performed comprehensive testing comprising of 200 requests for validation of the API's functionality using Postman.
- Collaborated with senior engineers to enhance the company's website, resulting in a 15% increase in user engagement through the development of a user-friendly and visually appealing user interface using Nuxt.js.
- Developed an **MVC** model in Laravel to optimize code structure which helped to simplify the testing process by 10%.
- Utilized **AWS** Lambda and harnessed its Lex chatbot to develop a robust voice communication system for a robotics project, achieving an impressive 95% accuracy in recognizing spoken language and generating responses in three different languages.
- Designed and implemented a robust REST API capable of efficiently handling 100 concurrent requests.

PROJECTS (<https://github.com/SankalpKadam>)

Volunteer Research Hub | JavaScript, MySQL, MVC

- Conceptualized and developed a dynamic web application using React.js and JavaScript, aimed at assisting organizations in efficiently managing their volunteers and optimizing operational processes.
- Implemented a robust backend infrastructure using PHP Laravel and MySQL, ensuring seamless data storage and retrieval to support the application's functionality.
- Conceptualized MySQL database architecture by designing ER Diagrams and schemas and wrote SQL queries for efficient storage and retrieval of data.
- Engineered a RESTful API employing asynchronous programming techniques in JavaScript, facilitating smooth data retrieval and enhancing application responsiveness.

Keep Notes | JavaScript, MongoDB

- Engineered and crafted a note management system, closely emulating Google Keep, using React.js, JavaScript, Material-UI, leading to better usability across desktop and mobile platforms.
- Utilized MongoDB (NoSQL database), Express, and Node.js in the backend, reducing server response times by 30% and ensuring efficient application performance.
- Implemented secure user authentication via Google Firebase Sign-In using OAuth, bolstering user confidence and reducing login-related issues significantly through JWT-based security.

Concord | JavaScript, Google Cloud (Firebase)

- Constructed a web application allowing real-time communication between different communities and used React.js, JavaScript, Material-UI to develop user-friendly interfaces.
- Adapted Firestore realtime database to store up to 20K messages per day and allow up to 50K reads for the entire application.
- Devised a github workflow to provide continuous deployment within 60 seconds whenever new features are published.

NotFlix | Typescript, MongoDB

- Engineered a responsive Next.js, Tailwind, Material-UI, and TypeScript front-end, providing a user interface for real-time streaming of 200 movies and shows.
- Employed a MongoDB cloud cluster for efficient data storage of up to 512 MB and retrieval and established a REST API to optimize the storage of user-related data in the cloud database.