SAURABH KALE

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EDUCATION

MS in Information Technology | GPA: 4   **May 2024**
Arizona State University, Tempe, AZ

Bachelor of Engineering - Computer Science   **May 2019**
Vishwakarma Institute of Information Technology, Pune, India

SKILLS & CERTIFICATIONS

Prog Lang: Java, Javascript, Python, Node, React, Elixir

Database Technologies: MySQL, MongoDB

Libraries: Python: Pandas, Numpy, Matplotlib, OpenAI

Prog Technologies: Git, Docker, Postman

WORK EXPERIENCE

Software Engineer | Infinichains, Pune, India   **July 2021 – July 2022**
Technologies: Javascript, React, Git, Elixir, MySQL, NodeJS
- Developed web-based application to automate manual data entry of Indian organic farmers on official govt website
- Designed and created Database tables for farmer records, subscription, app versioning using MySQL
- Enhanced Android mobile app, 'Credible Connect' for digitisation of data gathering using React Native

Software Developer | WhiteSnow, Pune, India   **Aug 2019 – Sept 2020**
Technologies: Python, Javascript, MySQL, Angular, Postman, MongoDB
- Created new features: language and pages on AngularJS
- Deployed updates on the AWS server, monitored and troubleshooted issues and priority task
- Upgraded existing codebase on python (backend) and Angular (frontend), with features and enhancements

ACADEMIC PROJECTS

Todo List Application using AI   **Apr 2024**
Technologies: Node, React.js, RESTful API, Docker, JWT, MongoDB, OpenAI, AWS RDS
- Developed a comprehensive Todo List application with **Node.js** for server-side scripting and **React.js** for the user interface, utilizing AWS RDS database for data storage.
- Implemented **RESTful API** endpoints, including **AI-drive**n features powered by **OpenAI** to generate mini tasks automatically, enhancing user task management efficiency.

Object Detection with Webcam   **Mar 2024**
Technologies: TensorFlow.js, COCO-SSD, HTML, CSS
- Created an object detection application utilizing **TensorFlow.js** and **COCO-SSD model**.
- Integrated webcam access to detect objects in real-time video streams.
- Utilized HTML and CSS for UI elements to display the webcam feed and detected objects.

Pdf Chatbot   **Mar 2024**
Technologies: Flask, OpenAI API (GPT-3.5), HTML/CSS (Bootstrap), JavaScript (Fetch API), PyPDF2.
- Developed a **Flask**-based web application for PDF document interaction, leveraging **OpenAI's GPT-3.5** model for natural language processing.
- Implemented features for uploading PDF files, parsing their content using **PyPDF2**, and allowing users to ask questions related to the document content.
- Designed an intuitive user interface with HTML, Bootstrap, and **JavaScript**, incorporating responsive design principles for seamless user experience across devices.

BookSwap Hub Web app   **Dec 2023**
Technologies: Node.js, Express.js, MongoDB, JWT, EJS Templates, Bootstrap, Docker
- Build a Book Swap Hub, a web app for effortless book exchanges, incorporating features such as book addition, browsing, and request processing.
- Developed using **Node.js, Express, MongoDB, and EJS** templates to build a robust backend, **NoSQL database**, and frontend rendering.
- Implemented secure user authentication using **JWT tokens** and middleware functions, following **MVC architecture** for organized code structure and developed routes for book **CRUD operations**, request handling, and an about page in the application.