

# SAURABH KALE

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## EDUCATION

### MS in Information Technology

Expected 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, React, Elixir

**Database Technologies:** MySQL, MongoDB

**Libraries:** Python: Pandas, Numpy, Matplotlib, scikit-learn

**Programming Technologies:** Git, Postman, Docker

## ACADEMIC PROJECTS [GitHub: saurabh4073](#)

### Todo List Application using AI

Apr 2024

**Technologies:** Node, React.js, RESTful API (GET, POST, PUT), Docker, JWT, MongoDB, OpenAI

- Developing a comprehensive Todo List application with Node.js for server-side scripting and React.js for the user interface.
- Implementing RESTful API endpoints, including AI-driven 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.

## 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 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
- Deploy updates on the AWS server, monitor and troubleshoot issues and priority task
- Upgrade existing codebase on python (backend) and Angular (frontend), with features and enhancements