

SAURABH KALE

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EDUCATION

MS in Information Technology | GPA: 4.0

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: Javascript, Python, React, Java, Elixir

Prog Tools: Git, Docker, Postman

Libraries: OpenAI, TensorFlow.js, COCO-SSD, PyPDF2, JWT

Frameworks: Django, Bootstrap, Node.js

API Development: Swagger, Postman

Database Technologies: MySQL, MongoDB

WORK EXPERIENCE

Software Engineer | Infinichains, Pune, India

July 2021 – July 2022

Technologies: Javascript, React, Git, Elixir, MySQL, NodeJS

- Spearheaded development of an automation web tool for farmers, reducing manual errors by **95%** via **Puppeteer** integration. Introduced features like flow cancellation, billing management, and implemented server automation through **cronjobs** and **Grafana** monitoring.
- Designed and deployed **Credible Connect Android app** in React Native for offline data collection, including **location** and **image capture**. Successfully published app on Play Store and managed version updates for wide accessibility.

Software Developer | WhiteSnow, Pune, India

Aug 2019 – Sept 2020

Technologies: Python, Javascript, MySQL, Angular, Postman

- Pioneered customizable language controls in JavaScript for Whitesnow, improving survey creation efficiency for **John Hopkins University's** AIDS and STD research in India, achieving **90%** paperless forms.
- Created end-to-end web-based survey form development for John Hopkins University, optimizing user experience with AngularJS and Django, ensuring robust backend functionality for seamless production deployment.

ACADEMIC PROJECTS

Todo List Application using AI

Apr 2024

Technologies: Node, React.js, RESTful API, Docker, JWT, MySQL, OpenAI, AWS RDS

- Developed a comprehensive Todo List application using Node.js for server-side scripting and React.js for the user interface, with **Swagger** employed for API design and AWS RDS utilized for data storage.
- Implemented 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

- Prepared 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), JavaScript (Fetch API), PyPDF2.

- Composed a Flask web app with **OpenAI's GPT-3.5** for PDF interaction resulting in a **70% reduction** in time spent on manual document analysis. Enabled PDF upload, parsing with **PyPDF2**, and user question generation.
- Devised intuitive UI using HTML, Bootstrap, JavaScript for seamless device responsiveness.

BookSwap Hub Web app

Dec 2023

Technologies: Node.js, Express.js, MongoDB, JWT, EJS Templates, Docker

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