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, MongoDB, 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.