

SAURABH KALE

602-723-8792 | skale12@asu.edu | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

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: 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

- Spearheaded development of an **automation web tool** for farmers, reducing manual errors by **40%** 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's **coding-free** app, exponentially improving survey creation efficiency for **John Hopkins University's AIDS and STD** research in India. Resulted in seamless integration and achieved **100%** paperless forms, streamlining data collection and analysis processes.
- Created end-to-end web-based survey form development for John Hopkins University, optimizing user experience with **AngularJS** and **Django**. Deployed new tools, conducted rigorous **unit testing**, and ensured 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 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-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

- Prepared an object detection application utilizing **TensorFlow.js** and **COCO-SSD model** resulting in **95% accuracy** rate.
- 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.

- 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, Bootstrap, 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.