

# Shaswat Satyam

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## 1 Education

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### Maharaja Agrasen Institute of Technology

Computer Science and Engineering, Bachelor of Technology

Minor in Artificial Intelligence and Machine Learning

CGPA: 8.836, Percentage: 88.4%

New Delhi, Delhi

June 2022 - July 2026

### Loyola High School

PCM, All India Senior Secondary Certification Examination

Percentage: 97.2%

Patna, Bihar

August 2020 - March 2022

## 2 Projects

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### Flight Booker

- Developed a full-stack **Ruby on Rails** web application for flight booking with complete user functionality.
- Implemented secure **user authentication** with Devise, supporting registration, login, and role-based access.
- Containerized the application using **Docker** to ensure environment consistency and easy deployment.
- Deployed the Dockerized app on **Google Cloud Platform (GCP)** using Cloud Run / GKE for scalability and availability.
- Designed a responsive UI with **Bootstrap** and ERB, adhering to modern UX standards.
- Structured codebase using MVC and RESTful architecture for maintainability and clean separation of concerns.

**Technologies:** Ruby on Rails, PostgreSQL, Devise, Docker, GCP (Cloud Run / GKE), SendGrid, Git, Bootstrap, ERB

### Plantly

- Developed a cross-platform mobile app using **React Native** to remind users to water their plants on a customizable schedule.
- Integrated **local and push notifications** using the **Expo Notifications API** for timely reminders across iOS and Android.
- Designed an intuitive UI with **React Native components** and styled using **Styled Components / React Native Paper**.
- Implemented persistent data storage for plant schedules and preferences using **AsyncStorage / SQLite**.

**Technologies:** React Native, Expo, JavaScript / TypeScript, Push Notifications, AsyncStorage, SQLite, React Navigation

## Adopt-Me

- Developed a dynamic, responsive web application using **ReactJS** for browsing and adopting pets across the United States.
- Integrated with the **PetFinder API** to fetch real-time data on available pets, including breed, age, and shelter location.
- Implemented routing and state management using **React Router** and **Hooks**, ensuring a seamless user experience.

**Technologies:** ReactJS, PetFinder API, JavaScript (ES6+), HTML5, CSS3, React Router, Hooks

## Cat and Dog Classifier

- Built a web-based image classification app using **FastAI** for model training and **React** for the frontend interface.
- Trained a convolutional neural network (CNN) using the **FastAI library** on a labeled dataset of cat and dog images.
- Deployed the model via a REST API and connected it to a React frontend for seamless user interaction.

**Technologies:** ReactJS, FastAI, Python, REST API, HTML/CSS, JavaScript, Machine Learning, CNN

## 3 Skills

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**Language:** Python, JavaScript & TypeScript, Ruby, Java, Rust, R, C, C++, php

**Tools:** Docker, Mongo, SQL, Git, Linux, Nix, Radare2

**Frameworks & Libraries:** React, React Native, Ruby On Rails, Pandas, Numpy, Flask, Django, Scikit-learn, Tensorflow, Keras, OpenCV, Matplotlib, Seaborn

## 4 Relevant Coursework

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Data Structures and Algorithms

Operating System

Software Engineering

Digital Logic and Computer Design

Database Management System

## 5 Awards and Activites

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Hacktober Fest 2023 & 2024

Vihaan 6.0 & 8.0 Hackathon

HackWithMAIT 3.0 & 4.0 Hackathon

Kaggle Certification in Python & R