

Shail Vania

in shailvania

shailvania.github.io

ShailVania

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Technical Skills

- o **Languages:** Python, C, C++, JavaScript, Java
- o **Operating System:** Mac OS X, Linux, Windows
- o **Database:** MySQL, MongoDB, DynamoDB
- o **Libraries/Frameworks/Formats:** Node.js, React.js, HTML5, CSS3, Bootstrap, MaterialUI, Matplotlib, Seaborn, Tensorflow, PyTorch, OpenCV, Keras, SK-Learn, NumPy, Streamlit, pandas, JSON
- o **Tools:** MS Office365, git, Sprint planning (Slack, Jira), IDE (PyCharm, VSCode, Jupyter Notebook, Eclipse, IntelliJ, Database visualization (MySQL Workbench, MongoDB Compass) Cloud platforms (AWS)
- o **Miscellaneous:** Quality Assurance, Agile Development with Scrum, RESTful APIs

Experience

DevTech Solutions

Kitchener, ON, Canada (Remote)

Software Engineer

June 2024 - July 2024

- **Technologies:** React, Node.js, TailwindCSS, JIRA, Git.
- Developed and Maintained the HYDEX website, using **React** for the front end and **Node.js** for the back end, with **TailwindCSS** for responsive design, all while ensuring global availability through **AWS services**.
- Developed advanced functionalities in **NFT**, making it possible to create, manage, and trade within the platform, which greatly fueled the development and improvement of the **HYTOPIA** ecosystem in providing an experience based on **over 1000 satisfied users** and advanced functionalities for the betterment of the platform.
- Ensured effective version control using **Git** and optimized project management with **JIRA** for a smooth workflow and timely delivery of high-quality features and updates.

Webbions Technologies

Ahmedabad, GJ, India

Web Developer

Feb 2020 - Feb 2021

- **Technologies:** React, HTML, CSS, Django.
- Assisted in designing, developing and maintaining websites and web-based applications.
- Developed rich interfaces using **HTML, CSS, JavaScript, and ReactJS**, leading to a 25% increase in user engagement with an average of 3 minutes per session.
- Developed **RESTful APIs**, implemented **Django** and used Python to build performant back-end solutions that improved the average session durations.

Education

University of Windsor

Windsor, ON, Canada

Master of Applied Computing Science

May 2022 - Aug 2023

Kadi Sarva Vishwavidyalaya

Gandhinagar, GJ, India

Bachelor of Engineering in Information Technology

May 2017 - May 2021

Projects

Q-win (<https://qwin.web.app>)

Jan 2023 - Aug 2023

Event Management WebApp

Supervisor: Dr. Kalyani Selvarajah

- **Technologies:** React, Firebase.
- Spearheaded a team initiative at the University to *revolutionize the seminar registration process for students*, addressing longstanding issues such as website crashes and manual entry loopholes, resulting in a seamless and efficient solution.
- Implemented a cutting-edge tech overhaul leveraging **Firebase, React** to manage up to 500 concurrent users, automating the entire registration process and generating comprehensive attendance reports, significantly streamlining administrative workload and enhancing user experience.
- Engineered a groundbreaking *attendance tracking system utilizing Dynamic QR Codes, refreshed every 5 seconds* with **SHA-256 hashed encryption**, ensuring foolproof security and accuracy, which garnered glowing reviews from professors and enthusiastic support from administrative staff, poised for production deployment.

Trek-Tix

Adventure Event-Booking Website

Jan 2023 - Apr 2023
Supervisor: Dr. Usama Mir

- **Technologies: Pycharm, Django.**
- Implemented user authentication and authorization using **Django's** built-in authentication system.
- Utilized **Git version control** system for source code management and collaboration with team members.
- Conducted **testing and debugging** using **Pycharm debugger**.
- Collaborated with team members to ensure timely delivery of project milestones and met all requirements given by professor.

Anime Recommendation System

Recommendation System

Oct 2022 - Dec 2022
Supervisor: Dr. Olena Syrotkina

- **Technologies: Pandas, Matplotlib, streamlit, MongoDB**
- Devised an anime recommendation system with *collaborative filtering as well as content-based filtering techniques* and Python as a programming language.
- Utilized machine learning libraries such as **Pandas, Matplotlib** for data preprocessing and **Streamlit** for creating web app.
- Implemented and integrated **MongoDB** as the database for storing and querying the data.
- Utilized **Kaggle API** for dataset integration and **GitHub** for version control and code management during the project.

Earthly

Carbon Footprint Calculator Android App.

Jun 2022 - Aug 2022
Supervisor: Dr. Usama Mir

- **Technologies: Flutter, Dart, JIRA**
- Led a collaborative effort to develop and deploy *an Android app* aimed at raising user awareness of their daily carbon footprint, leveraging **Google Flutter, Dart, and Agile methodology**, demonstrating adept problem-solving and technical skills while fostering an efficient team environment.
- Implemented robust *project management practices*, utilizing **JIRA** for issue tracking and project management, along with **GitHub** for version control and code management, ensuring streamlined development processes and effective collaboration among team members.
- Executed comprehensive software testing protocols, employing industry-standard tools and methodologies to identify and rectify bugs, resulting in a remarkable 95% reduction in user-reported issues, enhancing app reliability and user satisfaction. Additionally, *received recognition for outstanding UI design and presentation excellence, securing 10 bonus points from the professor, underscoring a commitment to delivering visually appealing and impactful solutions.*

Certifications

- o *React Basics - Meta*
- o *Introduction to Front-End Development - Meta*
- o *Programming with JavaScript - Meta*
- o *HTML and CSS in depth - Meta*
- o *Version Control - Meta*
- o *AWS Cloud Quest: Cloud Practitioner - AWS*
- o *AWS Cloud Computing 101 - AWS Training and Education*
- o *Ultimate AWS Certified Cloud Practitioner CLF-C02 - Udemey*
- o *NextGen CTO - EPICentre (University of Windsor)*
- o *The Joy of Computing Using Python - NPTEL*
- o *Ethical Hacking - Udemey*

Achievements & Extra-curricular Activities

- o Machine Learning Engineer at WICyS, University of Windsor, *2022-23*
 - Developed a network intrusion detection system using Python, scikit-learn, TensorFlow, and Keras for design, training, and testing the model with high classification into categories on the KDD CUP 99 dataset, reaching high classification rates in the identification of various types of attacks, such as Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks.
- o Organizer of Xenesis Tech-Fest, *2019*
- o Lead the team of 4 members and got funding of 20,000 INR from the SSIP Gujarat Hackathon, *2018-19*