Ganesh Jikmade

Software developer

Results driven and passionate about developing user friendly software applications. Excellent problem solving skills and ability to perform well in a team.

EXPERIENCE

V2STech Solutions Pvt Ltd

EDUCATION

Mumbai University
Bachelor of Engineering (Computer)

Maharashtra State Board
Higher Secondary Certificate

Maharashtra State Board
Secondary School Certificate

SKILLS

Languages
Python, HTML, JavaScript, JQuery, React(Beginner)

Frameworks
Flask, Django, Pandas, OpenCV, DialogFlow, Chatterbot, Machine Learning Supervised(Beginner)

Database
MySQL, Sqlite3

Platforms
Linux, Raspberry Pi, Windows, Apache, nginx, Xampp

Cloud
Google Cloud

PROJECTS

Automatic chemical solutions analysis with smart IoT and Artificial Intelligence

- Automated Titrator is an essential analytical instrument for quality control and chemical analysis using **smart IOT and Artificial Intelligence.**
- It was the software development part of the **specialized equipment** used in the Chemical and Pharmaceuticals industries.
- The hardware consists of the touch input tablet for the display and we developed the responsive front end part using **bootstrap**.
- It consists of the following modules:
  - **Manage user**
  - **Manage data**
  - **Network settings**
  - **Connection with desktop application**
- We used the **python flask framework** for the backend.
- This project consists of a user configuration to performing calibration on the electrode and monitoring electrodes.
- Automated the dose drop mechanism and creating reports of titrations.
- **Flask, Python, Raspberry Pi, HTML, JQuery, Javascript, MYSQL and Apache** technologies and platform used.
- My Responsibilities were to developed modules with a **python script using flask framework**, create and update **MySQL database using python script**, Integration of frontend to backend using **JQuery Ajax** and Customer Coordination.
- We have implemented the data security in the project as
  - **To prevent Sql injection attack we enable mod_security.**
  - **Mod_evasive used to prevent DDOS attack.**
  - **Nessus used to prevent vulnerability scanners.**
  - **AES encryption used in desktop application for security purpose.**

- The Project was developed in such a way that we can use the base code framework in other projects.

Accurate melting point analysis with Artificial Intelligence

- Automated melting point analysis is used to automatically determine the melting point and melting range of solid material using artificial intelligence.
- We have used the base code of the Titrator project and modified it as per the requirement for the melting point analysis requirement.
- It was also the software development part of the **specialized equipment** used in the Chemical and Pharmaceuticals industries.
- The hardware consists of the touch input tablet for the display and we developed the responsive front end part using **bootstrap**.
- It consists of the similar modules from Titrator project with the calibration module to **validate multiple reports** generated from the equipment.
- We also integrated **pen drive and printer module** in the hardware.
- We have used the **python flask** framework for the backend and Used **PID** controller to manage temperature and **OpenCV** for image processing as well as live streaming.
- **Flask, Python, Raspberry Pi, HTML, JQuery, Javascript, MYSQL, gunicorn and Apache** technologies & platform used.
- My Responsibilities were to developed modules with **python script** using **flask** framework, create and update **MySQL database** using python script, Integration of frontend to backend using JQuery Ajax and Customer Coordination.
- For the data security, we used same implementation as per Titration project.

Desktop server for Titrator and Melting point reports generation

- This application interact with all automatic potentiometer titrator and melting point applications in the company and act as a **server for accessing all reports**.
- This is the **main server** to connect all other instruments in the network.
- This is a **Windows-based** application and we used **xampp** to deploy it.
- **Flask, Python, Window, HTML, JQuery, JavaScript, MYSQL** and **Xampp** technologies and platform used.
- My Responsibilities were to the developed modules with python using **flask** framework, create and update **MySQL** Database using python script and Merging two desktop applications into one.
- For security we used **AES encryption** in application.

Web Scraping

- Used **Requests, mobile rest API.**
- **Scraped** website likes AutoScout24, autotrader, hasznaltauto with bypassing and proxy servers.
- **CSV module** is used to store scrapped data in CSV file format.
- **Pandas** is used to clean and get unique data from saved CSV.
- I have scraped almost **30-32 lacs** data from different websites.
- **crone job** is used to run script.
- Updated csv file **automatically uploads to cloud**.
- **Flask, Python, Burpsuite** and **pandas** technologies and tools used.
- My Responsibilities were to analysis of API using **burpsuite** tool, get data from mobile rest API using python script as a backend services, store data in **csv** file format and data cleaning using **pandas**.

Chatbot Development

- Developed **chatbot** for event management.
- In this we have used Google **Dialogflow** engine framework.
- For backend we are using python **Django**, **Flask** framework.
- For event management we used **Google Calendar API**.
- **Email module** is used to send confirmation of event.
- **Django, Flask, Python, Bootstrap, Dialogflow, Google cloud, Linux** technologies and platform used.
- My Responsibilities were to developed modules with python script using **flask** and **django** framework, create intents and entity using **dialogflow**, Integration of frontend to backend using **JQuery Ajax**.

ACHIEVEMENTS

Best Innovation Award

October 2019

V2STech Solutions Pvt. Ltd.

Created application to find melting point of solid material using image processing with help of PID temperature controller.

Best Project Team

January 2020

V2STech Solutions Pvt. Ltd

Created many chatbot projects, web scraping projects, gave support to existing melting and titrator project, contributed to other projects, following scrum events and learning new technologies.

Best Project Team

October 2019

V2STech Solutions Pvt. Ltd.

Developed **dynamic interactive chatbot** for Care home product which reduce their navigation and managing time. We have integrated chatbot with their business API using our python wrapper so we can easily retrieve real-time data of same product by just typing or voice commands.