Sachin Baghel

Software Engineer

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Introduction

Results-driven software engineer with over 2 years of experience developing scalable web applications and internal tools. Proficient in Python, Django, and JavaScript with a proven track record of optimizing APIs, automating workflows, and enhancing user experiences. Adept at collaborating with cross-functional teams to drive innovation and efficiency.

Experience

Software Engineer   *Gurugram*
Volkswagen Group Technology Solutions India   *August 2022 – Present*

- Developed a web application from scratch using Django and the Django Rest Framework..
- Enhanced server API performance by significantly reducing request times through parallel processing using Celery and Redis.
- Utilized Git for version control, Managed project timelines and tasks using Jira and Confluence for project Management.
- Participated in a roadshow and developed interactive fun Games like Tic Tac Toe and snake game, where users controlled game play with Fingers gestures. Python and Computer Vision as back-end while JavaScript handled the front-end.
- Collaborated with team members to develop an innovative idea utilizing Power Apps and Power Automate.
- Developed internal tools and scripts in Python to automate repetitive tasks and improve team productivity.
- Promoted best coding practices and continuous learning within the team.
- Actively contributed to the Python community within the company.

Projects

HexMail   *github/HexMail* ↗

- Developed a Discord bot that integrates Gmail accounts with Discord servers, enabling real-time notifications.
- Implemented multiprocessing to connect the Pub/Sub model with the Discord API, enhancing notification delivery efficiency.
- Utilized key technologies including the Discord Python API, Google Cloud Platform (GCP), and the Gmail API to ensure robust performance.
- Designed the bot to support multiple Gmail accounts per Discord server, providing flexibility for users.

Endless Runner   *github/EndlessRunner* ↗

- Created an endless runner game inspired by Subway Surfer, where players aim to collect as many coins as possible while navigating obstacles.
- Designed game play mechanics like increase game speed, variety of obstacles to make the game more challenging and engaging as players progress
- Developed using Unreal Engine, utilizing Unreal Blueprints for game design and logic implementation.

Blog Website   *github/Blog* ↗

- Developed a blog website where users can upload images, manage their own posts, and view all the posts from other users.
- Uses HTML, CSS, Bootstrap, JS as Front-end.
- Built the back-end using Django and Python, local sqlite3 database.

Other Projects

- **Multi-School Management System**: A website that uses Python,Django,PostgreSQL to track Attendance and users information of everyone in School and able to handle multiple schools. Designed the front-end using HTML, CSS, Bootstrap, and JavaScript to create a user-friendly interface and utilized Python and Django for the back-end, with PostgreSQL as the database for efficient data storage. github/SchoolManagementSystem ↗.

- **File Share**: File-sharing application that enables users to share large files over a hot-spot or local network. Utilized multiprocessing queues to enhance functionality and improve file transfer efficiency.Built using Python and Kivy, providing a user-friendly interface.github/FileShare ↗

- **Tic Tac Toe**: A CLI based tic tac toe game with PvP and AIvP modes. Uses Min-Max Algorithm with Alpha-Beta Pruning to play as AI. GitHub/TicTacToe ↗

Technologies

Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks/Technologies: Django, Django REST Framework, PostgreSQL, Power Automate, Power Apps, Tailwind, Bootstrap

Tools: Git, VS Code, Unreal Engine 5, DaVinci Resolve, Jira and Confluence

Education

Dr. A. P. J. Abdul Kalam Technical University, Lucknow   *2018 – 2022*
Bachelor of Technology in Computer Science(B.Tech)

KDB Public School, Ghaziabad   *2016 – 2018*
Intermediate(10+2,12Th)

Ingraham Institute English School, Ghaziabad   *2013 – 2014*
High School(10Th)

Skills

- Communication Skills, Teamwork and Collaboration, Adaptability, Problem-Solving, Time Management, Leadership, Creativity and Innovation

Interests

- Cycling, Table Tennis, Badminton , Computer Gaming