SAGAR PAGAD

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WORK EXPERIENCE:

Software Engineer: SAMSUNG R&D Institute India (Noida)   July 2022 – Sep 2024

- Collaborated with the **Opus team** on the development of **SGG Software**, focusing on **backend development** using **Python, and Django**, along with **Android development in Kotlin** for **Galaxy SGG Watch face applications**.
- Contributed to the development of **SGG Software** using **Python,** implementing **user authentication, product management, and payment integration.** Applied strong **problem-solving skills and coding expertise** to deliver a **high-quality, scalable** solution in a collaborative team environment.
- Developed **dynamic watch faces** for the **Galaxy Watch** using **Kotlin**, integrating **time-based animations** and real-time updates while ensuring optimal performance and minimal battery consumption.
- Worked on stabilization of **Bixby capsule** (Virtual Assistant of Samsung) for Samsung global goals application. Reviewed the deprecated **APIs** and architecture of Capsule and resolved issues using **C/C++.**
- Researched and explored **NFT wallet authentication** and **transaction recording** on a smartwatch application for **Samsung Global Goals**, contributing to the project's success by integrating innovative features.

Software Engineer: SecPod Technologies(Bengaluru)   Oct-2024-Nov-2024

- Developed Python scripts to automate redundant tasks, enhancing operational efficiency
- Set up and hosted servers using Proxmox for efficient resource management.
- Developed and automated a Python script to convert OVAL content between platforms, streamlining processes.
- Created patches and rollback solutions for Database Compliance using PowerShell, Batch Script, and bash Script .

PROJECTS:

E-Commerce Web Application Development:

- Designed and developed a full-stack **E-Commerce web application** using **Django** for the backend and **HTML, CSS, and Bootstrap** for the frontend, ensuring a responsive and user-friendly interface.
- Integrated **PostgreSQL** as the database, efficiently managing product listings, categories, user orders, and transactions. Optimized database queries and API responses, improving application performance and streamlining data retrieval and storage processes.
- Built and implemented *RESTful APIs* to support front-end functionalities, enhancing operational efficiency by enabling seamless CRUD operations for products, orders, and user management. Ensured secure authentication and authorization mechanisms using **JWT token authentication**, safeguarding user data and enhancing security.
- Developed and implemented a **shopping cart and checkout system**, enabling smooth order processing and transaction tracking, integrating **Celery** with **Redis** to handle asynchronous tasks.

E-Voting System Using Blockchain:

- Developed an application using *ReactJS*, JavaScript, and *Django* to implement secure login and registration processes, enhancing user authentication speed by 50% and ensuring safe access for over 1,000 registered users. Enhanced overall functionality and user experience of the application.
- Utilized the Truffle framework, Ganache for dummy Ether, and MetaMask for wallet integration and blockchain connectivity in our application. Enabled seamless blockchain interactions and secure wallet management.

Galaxy Watch face development: (Android)

- Developed dynamic watch faces that involve several animations for a particular time for Galaxy watch using *Kotlin*.

SKILLS:

Languages: Python (Proficient), C/C++, Kotlin (Android), JavaScript (Basics), Solidity (Basics)
Coursework: Database, OOPs, Linux, AWS, Blockchain, Scripting, NFTs, NumPy, Pandas, intermediate AI
Areas of Interest: Data Structures and Algorithms, Problem Solving, Backend Development, Android Development
Frameworks: HTML, Django (DRF), Rest API, ORM, VS Code, PyCharm, MySQL, PostgreSQL, Celery, Redis, Postman

CERTIFICATES:

- Samsung Competency Test from SAMSUNG
- Linux Basics and Shell Programming Certification Training, Python and Django framework complete course (Udemy)
- Python, SQL, Problem-Solving Certificate from Hacker Rank

EDUCATION:

➢ **Bachelor of Engineering (ECE)**   *2018-2022*
M S Ramaiah Institute of Technology Bengaluru   *CGPA-8.73*