Karan Singh
Software Engineer

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SKILLS SUMMARY

- **Languages/Frameworks**: Python, Assembly(Arm), SQL, Django, Django Rest Framework, ORM, HTML, CSS.

- **Backend**: MySQL, PostgreSQL, Celery, Redis, RabbitMQ, Nginx, Supervisor, Linux Deployment.

- **Tools/Testing/Others**: Git, ReportLab, Data Structure, Algorithm.

EXPERIENCE

- **SafEarth Clean Technologies, Bangalore**   Bangalore, India
  Backend Engineer   *Feb 2022 - Present*
  - Developed a full-stack **solar installation platform**, including a **marketplace** for selecting vendors via reverse auction, a **project management tool** for tracking solar installations, and a reporting system for each module. Used **ORM** for storing and querying the database.
  - **Optimized** the code, database query and used **Celery** task queue that processes tasks asynchronously, preventing delays in web api's response time by **60%**.
  - Generated **reports** using **ReportLab** and **XlsxWriter**.
  - Developed a custom **single sign-on** solution to streamline user sign-in/sign-up across different platforms, improving the user experience by **50%**.

- **SafeAeon Inc**   Mohali, India
  SOC Analyst   *Aug 2021 - Dec 2021*
  - Monitored and **analyzed security events** to detect and respond to potential threats, ensuring rapid incident resolution and minimizing operational impact.
  - Conducted real-time threat analysis and incident response, leveraging advanced tools like **QRadar, Kibana, SentinelOne**, and threat intelligence to protect organizational assets and maintain system integrity.
  - Automated daily and monthly reports using **Python, Selenium, XlsxWriter**, becoming the first to reduce **95%** of manual work for my colleagues.

PROJECTS

- **Portfolio Detail using OpenAI and MCP Server**:
  - **MCP Server** that scrapes data from my website to collect and process relevant information efficiently.
  - **MCP Client** that leverages large language models (LLMs) such as **OpenAI** and **Claude**, connected to the MCP Server for real-time data retrieval and processing.

- **Jameendar**:
  - Built a **Property Renting** website using **Django** and **DRF**, enabling users to list and rent various properties, including buildings, flats, villas, and PG accommodations.
  - Implemented multiple rental plans and integrated **Razorpay** to streamline payment processing, ensuring seamless and efficient transactions for users.

EDUCATION

- **Guru Nanak Dev Engineering College**   Ludhiana, Punjab
  *Bachelors in Information Technology; CGPA: **8.29***   *July. 2017– June. 2021*