Sonal Sahwal

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Results driven Software Engineer with expertise in Python, Django, AI-driven applications, automation, and web development. Experienced in building scalable, high-performance production-ready applications that leverage AI Agents and Cloud technologies. Adept at optimizing workflows with innovative solutions.

EXPERIENCE

Software Engineer   Feb 2025 – Present
Needles & Thimbles
- Designed and developed an **automated invoice** generation module using **Django**, streamlining billing by generating customer-specific receipts after each order, reducing manual effort and ensuring consistency.
- Built backend logic to support an **internal order tracking dashboard**, enabling real-time visibility into measurement, stitching, and delivery stages for **200+ designers** across Delhi NCR.
- Contributed to deploying and maintaining the company's landing page and admin backend on **Google Cloud** Platform (GCP), **improving uptime and scalability** during promotional campaigns.

PROJECTS

Portfolio Review AI | Django, Python, AI Agents
- Developed an **AI-based** web application using **Django and NLP** that evaluates portfolio websites and generates **UX improvement** reports, enhancing usability insights for users.
- Leveraged **AI agents and NLP models** to extract structured feedback and improve decision-making for designers.

Smart ATS Resume Evaluator | Python, Google Gemini AI
- Built a smart ATS evaluator in Streamlit that **parses resumes**, analyzes job fit using Google Gemini AI, and generates actionable feedback for job seekers.
- Engineered **advanced parsing** logic using **PyPDF2, regex, and JSON** schema validation to ensure high-accuracy data extraction.

Web Scraper for Unsplash | Selenium, Python
- Created a modular **image scraping** tool using Selenium to download high-resolution content from Unsplash based on user-defined criteria.
- Accelerated image extraction by **3x** through **parallel processing** and optimized thread management.

Galactic Invasion | PyGame, Python
- Developed a PyGame-based arcade shooter with **real-time collision detection**, animation effects, and an interactive scoring system.
- Implemented **object-oriented** design for game entities (player, enemies, bullets), enabling scalable feature additions like power-ups and difficulty levels.

CERTIFICATIONS

MySQL Database Administration   Udemy
SQL queries, optimization, database design   *2024*
Google Cloud Configuration & Management   Coursera, Google
SaaS, PaaS, IaaS, Puppet automation   *2024*

SKILLS

Languages & Frameworks: Python, Django, Java, HTML, CSS
AI & Automation: AI Agents, Selenium, Google Gemini AI, Streamlit
Databases & Cloud: MySQL, PostgreSQL, Google Cloud Platform (GCP)
DevOps & Tools: Docker, Kubernetes, Git, CI/CD
Others: Data Structures & Algorithms, Web Scraping, UX Optimization.

EDUCATION

Google Information Technology Professional Program
Google   *2024*
Delhi University
Master's Degree   *2021 – 2024*
Delhi University
Bachelor's Degree   *2018 – 2021*