

OWEN SINGH

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🐙 Github — 🔗 LinkedIn — 📁 Portfolio

Professional Summary

Versatile Software Developer with a Master's in Advanced Computer Science, **3+ years** of experience in **software development**, and **1+ year** of experience in **Data Analysis, Generative AI, and Machine Learning**. Proficient in developing **scalable applications**, conducting in-depth data analysis, and implementing AI solutions. Demonstrated success in **project leadership** and driving data-driven innovation across various domains.

Work Experience

Dogefiles.io - Secure Cloud Storage

03/2021 - 01/2024

Lead Developer

Lucknow, India

- Led development of a secure cloud-based file service, growing to **80k+ monthly active users**.
- Directed front-end (**React/Next.js**) and back-end (**Express.js, MongoDB, AWS**) integration.
- Optimized **UX** and **SEO** using data-driven strategies, significantly boosting user engagement and retention.

FutureGaming.io - Gaming News, Guides & More

06/2021 - 02/2023

Lead Developer

Lucknow, India

- Developed FutureGaming.io's gaming news platform with **PHP**, enhancing **user experience** with dynamic content.
- Grew FutureGaming.io's annual revenue by **\$20,000+** through targeted SEO tactics and content optimisation.
- Implemented analytics to monitor engagement, informing content strategy improvements and boosting site retention.

Central Drug Research Institute, Govt of India

09/2022 - 11/2022

Software Engineer Intern

Lucknow, India

- Contributed to **AI & ML** projects in **Bioinformatics** and **Cheminformatics** using advanced technologies.
- Developed and fine-tuned machine learning models for predictive analysis in drug discovery.
- Streamlined data analysis tasks, including data collection, cleaning, and classification.

Projects

CyberScrapers 2077 - LLM Based Scraper (1.5k+ stars)

Technology Used: Python, Streamlit, OpenAI, Ollama, Playwright

- Developed an AI-powered web scraper that uses **Open-AI** for precise data extraction from websites.
- Integrated multi-format export (**JSON, CSV, HTML, SQL, Excel**) for flexible data output.
- Implemented **Ollama** support for experimental use of open-source language models.

BetterNet for Precision Polyp Segmentation

Technology Used: Python, TensorFlow, Keras, OpenCV, scikit-learn

- Built BetterNet CNN with EfficientNet encoder and residual decoder for accurate polyp segmentation.
- Achieved **state-of-the-art** performance, outperforming **U-Net, Attention U-Net, and CAFE-Net** by an average of **1.47%** across all metrics.

EZ-Analyst - Auto EDA & Analysis

Technology Used: Python, Streamlit, OpenAI API, Data Analysis Libraries

- Developed EZ-Analyst app that **automates EDA and Data Analysis** tasks for easy insights.
- Implemented data exploration, preprocessing, and visualization features using various Python libraries.
- Integrated **OpenAI's** language model to generate automated analysis code and summaries for comprehensive insights.

GeneticsGPT

Technology Used: Python, OpenAI GPT-3.5-turbo, PyQt5, requests

- Developed an app using **GPT-3.5-turbo** to answer genetic and disease-related questions.
- Integrated **Open Targets** database for accurate responses and added features like FAQs.

Discord Blogger/WordPress Integration using Rest API

Technology Used: Python, Rest API, Google Blogger API

- Notify Discord server with frequent website updates to keep the community informed using **Rest/Blogger API**.
- Use Discord to quickly fetch relevant articles, enabling seamless knowledge sharing among your server users.

Skills

- **Languages:** Python, PHP, Javascript, SQL
- **Technologies:** Docker, Kubernetes, CI/CD, React.js, Django, MongoDB, REST, GraphQL, AWS, Git, Power BI

Education

Cardiff Metropolitan University

01/2023 - 06/2024

Master of Science : Advanced Computer Science

Cardiff, United Kingdom

Chandigarh Engineering College Chandigarh

2017 - 2021

BE : Electronics and Communication

Mohali, India

Certifications

- DevOps Beginners to Advanced — Decoding DevOps with Projects
- Scientific Computing with Python