Max Skipper Griffiths

mskippergriffiths@gmail.com | https://github.com/MaxSkippGriff | linkedin.com/in/max-griffiths | 07875126708

Summary

PhD candidate in Engineering Mathematics, submitting thesis September 2025. Experienced in Python, Flask, automation, LLM integrations, and full-stack development. Practical, adaptable, and motivated to take on challenging projects.

Education

University of Bristol — Bristol, UK
PhD in Engineering Mathematics (EPSRC-funded) — *Sept. 2021 – Sept. 2025 (expected)*
- Thesis submission scheduled for September 2025.
- Research in human-automation interaction, measuring trust in automation.

University of Bristol — Bristol, UK
MSc in Computer Science — Upper Merit — *Sept. 2020 – Sept. 2021*
- Awarded highest mark in cohort for software engineering project.

Technical Skills

LLMs and AI: OpenAI API, xAI API, LangChain (knowledge base integration, RAG), reward model training.
Languages: Python, TypeScript, SQL, HTML/CSS.
Frameworks: Flask, Angular, PyTorch, BeautifulSoup, Scrapy, Cypress, Jasmine.
Databases: SQL (PostgreSQL, Azure SQL), MongoDB.
Libraries: Pandas, NumPy, Matplotlib, SciPy, Seaborn.
Developer Tools: Git, Docker, Azure, GCP, Visual Studio, CI/CD (GitHub Actions).

Experience

Software Engineer — March 2025 – Present
Fiftyminds — *Remote, UK*
- Independently built a **Marketing Agent/Chatbot** for multi-platform content generation and posting, integrating GPT-4 Turbo, BeautifulSoup, and API automation for email, WordPress, X, and Discord.
- Created a **Campsite Booking Automation** system using API-driven workflows to streamline reservations.
- Developed a **Grant Evaluator** tool leveraging LLMs for scoring and summarisation of applications.
- Built a **Bookkeeping Agent and Dashboard** to automate financial reporting and provide real-time insights.
- Delivered all projects end-to-end with Python/Flask, Google App Engine, Google Cloud Storage, and Slack/Telegram API integrations.

PhD Researcher — Sept. 2021 – Sept. 2025
University of Bristol — *Bristol, UK*
- Developed reinforcement learning trust game in Unity (C#).
- Ran eye-tracking experiments; collected and processed data using MATLAB and Python.
- Applied machine learning methods to analyse and predict behavioural patterns in research data.

Software Engineer (Full Stack) — March 2023 – Aug. 2024
Verge Technology — *Bristol, UK*
- Built Angular/TypeScript front-end interface for lease data processing.
- Developed Flask API connecting to Python backend for document extraction.
- Managed Azure Web App Services, Azure SQL Database, and Blob Storage.
- Integrated Flan-T5 model for named entity recognition and summarisation.

Mentor — Oct. 2022 – March 2023
University of Bristol — *Bristol, UK*
- Mentored students in Innovation and Enterprise course, providing project and technical guidance.

Teaching Assistant — Oct. 2022 – Dec. 2022
University of Bristol — *Bristol, UK*
- Assisted teaching of Introduction to Computer Science, supporting labs and tutorials.

Tutor — Oct. 2022 – Dec. 2022
University of Bristol — *Bristol, UK*
- Delivered ethics tutorials for the Centre for Ethics in Medicine.