

Max Skipper Griffiths

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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

PhD in Engineering Mathematics (EPSRC-funded)

Bristol, UK

Sept. 2021 – Sept. 2025 (expected)

- Thesis submission scheduled for September 2025.
- Research in human-automation interaction, measuring trust in automation.

University of Bristol

MSc in Computer Science — Upper Merit

Bristol, UK

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 (AI and LLM)

March 2025 – Present

Fifty minds

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 (AI and LLM)

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.