Sam Woodall

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West Sussex, UK
LinkedIn, GitHub, Portfolio Site

Summary

Junior software developer with an MSc in Computer Science and practical experience delivering full-stack applications and data-driven projects. Strong grounding in software engineering principles, problem-solving, and collaborative development practices. Seeking a software engineering role to apply technical expertise and make impactful contributions.

Technical Skills

Languages & Frameworks: Python, JavaScript/Node.js, React, Flask, FastAPI
Databases: SQL, MongoDB, Firebase
Data & ML: Pandas, NumPy, Scikit-learn, Neural Networks
Testing: Pytest, Unittest, Jest
Tools & Practices: Git/GitHub, REST APIs, MVC, Agile/Scrum, CI/CD

Projects

More projects can also be found listed on my portfolio site linked above.

TMysticaStats – Data Visualisation Platform
- Built using **Python, Flask, Pandas, React, XGBoost**.
- Designed API-driven pipelines and trained a classification model to predict game outcomes based on opening configurations.
- Produced over 25+ interactive visualisations to help players analyse strategies.

GeckoNews – Desktop News Aggregator
- Developed with **JavaScript, React/Electron, MongoDB, Flask**.
- Aggregates global news via RSS, with built-in translation and interactive bias/accuracy rating system.
- Enhanced media transparency by enabling users to critically evaluate sources.

Crop Yield Forecaster
- Created predictive model using **Python, TensorFlow, Scikit-learn, Pandas**.
- Trained feedforward neural network with embeddings for country/crop features and climate datasets.
- Supported data-driven agricultural planning with year-ahead forecasts.

Repper – Personalised Fitness App
- Built full-stack with **Flask, Jinja, SQL**.
- Implemented adaptive progression logic to auto-adjust workout targets based on user logs.
- Delivered personalised fitness tracking to encourage consistent improvement.

Education

University Of Sussex: MSc Computer Science (September 2024 - August 2025)
Relevant Modules: Maths and Computation Methods for Complex Systems, Limits of Computation, Algorithmic Data Science, Machine Learning, Engineering Scalable and Reliable Software.

Northcoders: Software Development Course (August 2023 - December 2023)
Intensive, industry-led full-time training in software engineering. Covered full-stack development (React, Node.js & REST APIs), test-driven development, and Agile team practices including pair programming and code reviews.

Harvards CS50p: Programming with Python (July 2022 - September 2022)
Harvards CS50x: Introduction to Computer Science (April 2022 - June 2022)

SOAS University of London: BA East Asian Studies (September 2019 - 2023)
Developed transferable skills in research, analysis and communication; Studied Advanced Korean.

Work History

Northcoders – Trainee Software Developer (Freelance Consultant) *(May–July 2024)*
- Delivered a bespoke internal software solution as part of the Launchpad Project.
- Applied TDD and CI/CD pipelines to ensure reliability and maintainability.
- Tech stack included JavaScript, React, TailwindCSS, Node.js, and Firebase

TentStyle - Events Team (2024 - Current)
- Delivered bespoke event setups for private and corporate clients, meeting strict deadlines and safety requirements.

Korea Foods – Team Leader (2020–2023)
- Supervised a small team and oversaw stock management and ordering processes in a high-volume retail environment, ensuring smooth operations during peak periods.