

Samuel Juul Barker

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Technical skills

Programming: Python, JavaScript, PHP, TypeScript, HTML, CSS

Frameworks & Tools: Laravel, Django, Flask, React, Vite, Jupyter, Pandas, NumPy, Webflow

DevOps & Hosting: Linux, Nginx, WordPress, WooCommerce, GitHub Pages, MySQL

Automation, Scripting & Office: Deluge, Zoho, Microsoft Office Suite

Education

University of Exeter – BSc (Hons) in Computer Science – First Class 09/2021 - 07/2024

- Dissertation: Novel method of linear motion detection.
- Research project: Bird conservation status using neural networks (Python, Jupyter, Pandas, NumPy).
- Group project: Led development in Django for a web application (team of 6).
- Technology Rep for the Exeter Student Investment Fund, developed society website using Webflow

Budmouth College 09/2018 - 07/2020

- A-levels: Computer Science (A*), Physics (A), Mathematics (B)

Experience

Data Analyst/Developer – Gathering Momentum Ltd 07/2024 - present

- Streamlined financial audits, reducing manual review time by 40% and increasing reporting accuracy.
- Developed a training management system that streamlined course scheduling and tutor onboarding, improving efficiency for 10s of tutors.
- Implemented data automation scripts internally and for clients with Zoho Deluge, cutting admin workload by over 20 hours/week.

Product Developer – Gathering Momentum Ltd 05/2023 - 03/2024

- Developed and maintained full-stack applications in PHP/Laravel and MySQL for B2B startup.
- Collaborated with non-technical teams to develop software projects for exploring new business models.

Seasonal employee – Dorset Wood Fired Pizza 07/2016 - present

- Provided customer service and operational support in a high-paced team setting.

Projects

Specialised weather dashboard for dinghy sailors & sea swimmers *wavedash.sambarker.xyz*

- Designed and built a mobile-friendly Progressive Web App (PWA) weather dashboard for sea swimmers and dinghy sailors using React, Vite, and TypeScript.
- Integrated multiple APIs to display accurate location dependent weather and reverse geocoding data.
- Optimized performance for fast loading on low-bandwidth connections, ensuring smooth UX even in remote coastal areas.
- Deployed on GitHub Pages, leveraging CI/CD for automated updates.

Portfolio website *sambarker.xyz*

- Developed a high-performance portfolio site, self-hosted on Debian Linux VPS with Nginx.
- Used WordPress and custom Linux/Nginx configurations to optimize server response times.
- Showcases personal projects, highlighting expertise in frontend and backend web development.

Interests

Keeping fit — Birdwatching — Sailing — Swimming — Web development — ML & research

References available on request.