

Joe Broughton

London

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Professional Profile

Computer Science and AI graduate, with a combined 3+ years of entrepreneurial and technical experience. Delivered and consulted on agile development projects, founded multiple organisations, lead small teams and utilised cross business and technical communication. Designed data pipelines, architected servers and coordinated third party integrations. Experienced with platform tools such as Docker, K8s, AZD, AWS, GitHub, Confluence and Jira. As well as data orchestration, governance, storage and quality technologies including Dagster, Snowflake, Datahub and Great Expectations. Proficient understanding and practical experience in Python, TypeScript, C#, Java, Shell and SQL among other languages.

Core Skills

▪ Efficient use of LLMs in workflow	▪ Investigative & resourceful self-learner	▪ Understanding value of work	▪ Taking ownership
▪ Software testing	▪ Data Orchestration	▪ DevOps	▪ Agile, Scrum + Kanban
▪ UI and UX	▪ AI + ML	▪ Planning + delivery	▪ Data lineage and metadata
▪ Writing technical documentation	▪ Able to adapt to changing priorities & timescales	▪ Logical, analytical & critical thinking	▪ Building positive relationships at all levels
▪ Web and cloud infrastructure	▪ Deliver independently & collaboratively	▪ Technical + Business communication	▪ Team management & resource distribution

Attitude & Competencies

Logical, resourceful, intuitive, pro-active, motivated, committed, confident and dependable, with an investigative and positive approach. Will always seek to understand value and justification. Able to work well both independently and as part of a team, self-manage tasks, working to deadlines and deliver to a high standard.

Personal Projects

- Designed and implemented my own open source, E2EE, portable messaging standard and platform. Uses encryption at rest, forward secrecy, sender masking and signatures for secure messaging application that can be configured as live bootable drive. Lead small team.
- Wrote a market prediction algorithm written in Python utilizing the Pandas library and financial data APIs to model the market against previous shapes and behaviours and predict the performance of a stock.
- Developed collaboratively on “Racing Skylines”, a free roam driving game in Roblox working with 3D meshes, car physics, game save files and multiplayer concurrency.
- Created and maintain a popular (20k+ users) Factorio mod that adds new features and entities to the game’s existing train logistics. Involving art, code collaboration, game balancing and community management.
- Created and maintained a Discord bot with thousands of users for mathematical utilities.
- Published “Service Monitor”, a toolkit for server uptime and resource monitoring.
- I provide website hosting services on an Apache server and configure SSL with Certbot. This works in partnership with Service Monitor to ensure uptime of each site. I also provide site analytics and evaluations.

Education

University of Bath: 2022 - 2026

First class. 3 years of study with a placement year.

Year 1: studied and practiced fundamentals of programming, agile methodology, discrete, pure and analytical mathematics, fundamental AI and ML algorithms, and architecture, operating systems and networking.

Year 2: studied advanced data structures and algorithms, further AI and ML, visual computing, foundations of computation, and game theory, as well as undertaking an Experimental Systems group project.

Year 4: studied advanced vision, advanced graphics, reinforcement learning and natural language processing. Dissertation on representation/sampling for accessible galaxy simulation visualisations in VR.

CFA Institute: 2025

Investment Foundations Certificate

Truro & Penwith College, Truro Campus: 2020 - 2022

Achieved four A Levels:

- Mathematics (A*)
- Physics (A*)
- Computer Science (A*)
- Further Mathematics (A)

I gained an A in my Level 3 Extended Project Qualification (EPQ). My artifact was a collection of retro video games.

Penrice Academy, St Austell: 2015 - 2020

Nine GCSE's grades 9-7 (six 9s, an 8 and two 7s), BTEC Music Practice (Distinction) and A Level Additional Mathematics (A)

Employment History

I particularly enjoy work where I can apply my expertise and enhance my entrepreneurial mindset, professional skills and overall experience.

Data Engineer at Orbis Investments July 2024 – September 2025, June 2026 - Present

Returning after internship, working on data landscape across the firm and within investment technology. Pioneered a new data platform and presented at global tech townhalls.

Co-Founder and Lead Engineer at PocketChat March 2025 – Present

Architecting the platform and leading a small team of part time developers building an open source secure messaging platform.

Co-Founder, CTO & Solutions Architect at Moored Solutions Ltd May 2022 – July 2024

Scoping, designing, and executing the development products, writing proposals, research and policies, and managing the development team. Presenting prize-winning and successful funding pitches and attending networking events to promote the product and played a key role in securing the business' first client.

Developer at Estudiamos Ltd April 2023 – July 2024

Heading up new integration and implementation with a large data provider using Firebase and NextUI. Architecting an AI-driven recommendation algorithm for displaying relevant worksheets to users.

Cloud Consultant at edie.one Ltd November 2022 – February 2024

Utilising my web skillset and technical communication to enable personalised and fast web-related services. Leading to an increase in revenue and clientele for the business.

Software Developer at TouchByte Ltd (SALTO Systems SL) February 2022 – October 2023

Standardising workflow, adopting scrum methodology. Contributed to the growth and success of the company that led to its acquisition in May 2023. Working on industrialisation and integration of the product and prototyping a feature for Real Madrid's home stadium access control system.

Maths & Physics Tutor September 2022 - January 2023

Helping students improve understanding and prepare for their IGCSE exams – lesson scheduling and session planning, researching curriculum and past papers - delivering engaging lessons to motivate and create a passion for the subject.

Music Tutor July 2020 - June 2022

Providing drum lessons, including basic principles of drumming, music theory and preparing for exams.

Mechanic's Assistant at Steve Andrews Tyres Ltd, St Austell July 2019 - May 2020

Fitting replacement tyres, brakes and batteries and handing vehicles back to customers while helping with logistics.

Interests & Hobbies

An accomplished drummer and percussionist, having obtained Grade 8 in each discipline with Distinction. Was a percussionist performing at competitions and events from 2016 until starting university where I play drums in a student band. We have recently recorded a studio single. I enjoy building PCs, gaming and going on walks.

References

Available on request