

Samuel Forrest

Phone: 07453 446391

Email: sam@samuelforrest.me

Website: samuelforrest.me

Address: Teddington, London

LinkedIn: linkedin.com/in/samueljforrest

GitHub: accessed via website

¾ sentences, dependent entirely on the company (take key skills from job description)

Education **St George's College, Weybridge (2021-Present)**

A levels Mathematics **B**, Computer Science **A***, Physics **A**

EPQ "To what extent is it feasible to reintroduce commercial supersonic aviation by the year 2040?" **A***

GCSEs	English Literature	9	Biology	9	Chemistry	9
	English Language	9	Geography	9	Physics	9
	Computer Science	9	Mathematics	8	Latin	7
	Religious Studies	9				

Technical Skills

JavaScript, TypeScript, Git/Github, TailwindCSS, NativewindCSS, React, Next.js, APIs, CI/CD, Supabase, Firebase, Databases, SQL, Google Cloud, SEO, Python, Microsoft Office, Notion, VScode Claude/Gemini APIs, Analytical & Research Skills.

Interpersonal Skills

Communication, Time Management, Organisation, Presentation Skills, Analytical Thinking, Client Communication, Active Listening, Teamwork, Leadership, Critical Thinking, Multitasking, Teaching, Stress Management, Collaboration.

Work Experience and Volunteering

Freelance Private Tutor

Oct 2024-Present

- Delivering one-to-one tutoring to Computer Science students from diverse backgrounds, including those with special educational needs (SEND). Over 45 hours of lessons given to date.
- Strengthened key interpersonal skills such as clear communication, structured lesson planning, time management and the ability to provide empathetic and tailored constructive feedback.

British Airways Work Experience (in-person)

Jul-August 2025

- Incoming Work Experience

Freelance Developer

May 2025-Present

- Designed, coded and deployed responsive websites for 3 paying clients, using TailwindCSS, React, Next.js, Supabase, Gemini API, Google Analytics, and integrating features such as authentication, admin dashboards, blogs and AI summaries. Most client projects are publicly available here: samuelforrest.me/projects
- Communicated directly with clients to gather requirements and to provide progress updates throughout the development process and support to maintain the websites, strengthening client communication, active listening, and problem-solving skills.

Air Accident Investigation Branch Work Experience (in-person)

April 2025

- Gained first-hand insight into how air crashes are investigated in the UK, by examining black box data, aircraft systems data and inspecting recovered aircraft in the AAIB hangar.
- Strengthened attention to detail, technical observation, and professional communication skills in such a serious and sensitive safety-critical work environment.

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HUDJO App Development Work Experience (virtual)

Aug-October 2024

- Explored cross-platform mobile development by shadowing a startup developer at HUDJO, an app focused on bike parking solutions at local businesses in London, which recently received funding from Deliveroo.
- Introduced to JavaScript, TypeScript and the Expo framework, learning how cross-platform apps are built, from a former Google & Yandex software engineer.

Virgin Atlantic Aerospace Engineering Course (in-person)

Aug 2024

- Gained practical and theoretical insight into aerodynamics and aerospace engineering, with hands-on experience with flight simulators and wind tunnel experiments at Kingston University, London.
- Led a 4-person team during design and presented a glider to an audience of 100+ students; won the final competition, showcasing teamwork, leadership, problem-solving and perseverance.

St Michael's Fulwell Audio & Visuals Team

2017-2023

- Volunteered 2 hours every Sunday, managing the audio and visuals at the church, displaying song lyrics in sync with the band and ensuring balanced and clear sound levels of microphones and instruments.
- Developed technical sound skills in sound mixing, equipment setup, and YouTube live-streaming, alongside developing critical thinking skills and remaining calm under pressure, over 6 years.

Key Achievements & Interests

- Honorary academic scholarship awarded for outstanding performance
- Won the environmental prize (£300) at an online Hackathon, KTHack25, showcasing my teammate's and my strong technical skills in coding and pitch presentation skills. Undertaking Hackathons on my own requires discipline and initiative, qualities which would be valuable and transferable to a degree apprenticeship.
- Achieved Grade 7 Saxophone and Grade 5 Piano, awarded Music half-colours for my outstanding contribution, actively participating in both Jazz Band and Concert Band, developing discipline, teamwork, confidence and performance skills.
- Flight simulation enthusiast, an active member of VATSIM as a pilot and air traffic controller, developing strong multitasking, quick decision-making and stress management as I coordinate aircraft in the Swiss airspace.
- Silver & Bronze Duke of Edinburgh Award completed
- Yearly participation in the British Informatics Olympiad, Bebras and UK Maths Challenge
- Typing speed of 100 WPM with 96% accuracy (top 1%)
- *UK Driving Licence (not yet completed)*

Other Interests

- Rowing & Fitness: dedicated 8 hours a week to rowing from 2021-2025
- Computer Hardware: built PCs for myself, friends and family from scratch
- Blogging: Computer Science, Aviation and AI blog hosted on my website samuelforrest.me/blog
- Listening to Podcasts: Diary of a CEO, Lightcone Podcast (Y-Combinator), Mentour Pilot
- Bike Rides: London to Brighton BHF (£500 raised), London to Paris (£500 raised), London to Bath, and Vienna to Budapest via Bratislava (Danube River).

References: *Others are available upon request.*

Azeem Jiwaji (Computer Science Teacher): AJiwaji@stgeorgesweybridge.com