

BENJAMIN SANGWA

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PROFESSIONAL SUMMARY

A versatile professional with expertise in programming across multiple languages, including Python, C++, and JavaScript, complemented by a strong foundation in AI and machine learning technologies such as PyTorch and TensorFlow. Demonstrates proficiency in cloud and DevOps environments with Azure, AWS, Docker, and Kubernetes. Skilled in financial analysis through algorithmic trading and portfolio optimisation, alongside a robust understanding of cybersecurity principles like encryption and blockchain systems. Experienced in immersive technology development using WebGL and Unity, coupled with design capabilities in 3D modelling and UX. Committed to leveraging these skills towards innovative solutions in technology-driven industries.

WORK HISTORY

Jan 2016 - Current

Software Engineer

Independent Software Engineer - London

- Built end-to-end encrypted messaging systems and secure collaboration tools.
- Designed immersive Oculus VR environments and 3D WebGL business experiences.
- Developed AI-driven educational and financial applications for small enterprises.

Jan 2021 - Jan 2022

Algorithmic Trader & Quant Developer

Schroders & Morgan Stanley - London

- Built, backtested, and executed algorithmic trading models for equities and alternative assets (crypto, commodities, and precious metals).
- Scaled a live trading portfolio through systematic model refinement with fundamental research.
- Developed proprietary backtesting engines, predictive analytics pipelines, and execution models in Python and SQL.

Jan 2019 - Aug 2025

Founder & Lead Engineer & Developer

EveryMe Labs - London

- Built and deployed 1,000+ digital and AI solutions for over 100 clients across finance, law, medicine, and construction.
- Engineered LLM-based cognitive frameworks, search engines, and persistent memory agents.
- Created Legal time management software, an AI-powered system for lawyers that automated time tracking and billing with auto.
- Designed and implemented an API suite allowing AI models to autonomously manage entire business software systems.
- Led R&D in game-based data collection, cognitive AI, and autonomous control frameworks.
- Full-stack expertise across Python, C++, TensorFlow, PyTorch, FastAPI, Hugging Face, SQL, Azure, Docker, and Kubernetes.

Jan 2023 - Jan 2025

Fractional CTO

Startup Advisor (EveryMe Labs) - London

- Providing strategic leadership in AI architecture and software design for multiple start ups taking on early CTO roles and aiding go to market strategies.
- Advising on model verification, cognitive optimisation, and long-term AI product direction.

SKILLS

- Programming: Language-agnostic (Python, C++, JavaScript, R, Solidity, SQL, Bash)
- AI / ML: PyTorch, TensorFlow, LLMs, NLP, Reinforcement Learning, Computer Vision
- Cloud & DevOps: Azure, AWS, Docker, Kubernetes
- Finance: Algorithmic trading, quantitative analysis, portfolio optimisation
- Cybersecurity: Encryption, blockchain systems, secure data architectures
- Immersive Tech: WebGL, Unity, Oculus VR
- Design: 3D modelling, UX, Adobe Creative Suite
- Financial literacy

EDUCATION

Aug 2014 - Sep 2018

BEng: Mechanical Engineering

Loughborough University | Leicestershire | Merit (2:1 - second class)

GPA: 2:1

Sep 2020 - Oct 2021

MSc: Artificial Intelligence & Machine Learning

Loughborough University (London) | London | Distinction, (1st class)

GPA: First Class

Sep 2021 - Oct 2022

MSc: Cyber Security

Loughborough University (London) | London | Distinction (first class)

GPA: First Class

Jan 2023

PhD: Cognitive Artificial Intelligence

Loughborough University | London | Incomplete

Incomplete – Research in Cognitive Systems & Memory

KEY PROJECTS

- A context aware time logging tool for lawyer(LegalTech): AI contextual time tracker for law firms; replaced manual logging with automated situational awareness.
- Cognitive LLM Frameworks: Custom architecture for generative models and AI search engines with benchmarking systems.
- Quantitative Trading Engine: Proprietary ML-based system achieving multi-million-pound growth.
- Autonomous API Suite: Enabled AI models to control and operate live business workflows independently.

ACHIEVEMENTS

- Sir William Siemens Hackathon Winner
- Dapper Labs Hackathon Winner
- Chainlink Hackathon Runner-Up
- Denso Hackathon Loughborough Winner
- Volunteer Work: COVID Safe Paths (MIT collaboration), Plant A Million (Roger Federer Foundation), Mambilima Hospice Care, Lego League Judge

CORE COMPETENCIES

- **AI & Machine Learning:** Experience building cognitive and generative systems across finance, law, and healthcare.
- **Quantitative Finance:** Background in algorithmic trading and applied data modelling for multi-asset strategies.
- **Software Architecture:** Designed and deployed scalable AI frameworks and API suites for automation.
- **Research & Development:** Hands-on with frontier methods (LLMs, tool-use, COT) and rapid prototyping.
- **Solution Engineering:** Translating abstract research into working systems that solve real problems.
- **Technical Leadership:** Led small, high-velocity teams through ideation, delivery, and pivot cycles.
- **Agile Product Development:** Balancing innovation speed with structured delivery and iteration.
- **Ethical AI:** Focused on human-centred design, data responsibility, and meaningful deployment.

PROFESSIONAL INTERESTS

- **AI at Scale:** Exploring how intelligence evolves when given resources, data, and purpose.
- **Generative Systems:** Building models that create, not just classify.
- **Digital Transformation in Finance:** Using computation to make markets fairer and more accessible.
- **Cognitive Architectures:** Understanding how reasoning, memory, and interaction converge.
- **Computational Creativity:** Finding elegance in systems that think differently from us.

