

Baha Alfararjeh

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Summary

First-Class Computer Science graduate specialising in full-stack Python development, machine learning, and web technologies. Experience building production applications, including a Python-based fantasy league platform supporting live users and a TensorFlow neural network trained on large gameplay datasets.

Skills

Python, Java, SQL · TensorFlow, Keras, scikit-learn, Pandas · React, Next.js, Tailwind CSS · PostgreSQL

Projects

Full-stack Python Software Engineer | **Fantasy League Application** | Python, Postgres, SQL

- Independently designed and built an end-to-end desktop application to replace manual spreadsheet-based tracking, managing all decisions from architecture to UX
- Engineered real-time user synchronisation across a desktop client, Postgres backend, and WebSocket layer

Frontend Next.js Developer | **Brand Website** | Next.js, React, Tailwind CSS

- Developed and deployed a personal brand site for my competitive Street Fighter 6 and coaching career, integrating the YouTube Data API with server-side caching to display live subscriber counts
- Built a fully responsive layout with device-aware UI, including a mobile burger menu, CSS masonry gallery, and touch-specific interaction handling

Machine Learning Software Engineer | **Footsies Neural Network** | Python, TensorFlow, Data Science

- Developed a TensorFlow neural-network AI agent to serve as a realistic human-like opponent, designing data pipelines to preprocess 100,000+ gameplay frames into training-ready feature vector
- Tested 100+ hyperparameter configurations to optimise model convergence and minimise validation loss.

Education

BSc (Hons) Computer Science | First Class

University of Portsmouth, Sep. 2022 – July 2025

A-Levels | Mathematics (A), Physics (A), English (B)

Queens' School Bushey, Sep. 2020 – July 2022

Experience

Hunter Gatherer Coffee, Hampshire | **Head of Kitchen** | Nov. 2024 – July 2025

- Led kitchen operations for a busy café, owning end-to-end responsibility for food prep, inventory management, and team coordination
- Onboarded and directed kitchen staff, maintaining quality and consistency under time pressure

Steam Rûme Coffee, Hampshire | **Kitchen Porter** | Nov. 2023 – April 2024

- Adapted fluidly between kitchen and front-of-house responsibilities based on operational needs
- Demonstrated reliability by stepping up to food preparation roles at short notice.

Self-Employed, Hertfordshire | **Personal Tutor** | Jan. 2021 – May 2022

- Translating complex A-Level Mathematics topics down into clearly structured and tailored explanations
- Managed competing priorities between personal studies and consistent tutoring commitments

Hobbies & Interests

- **Competitive Street Fighter 6 Esports** | Competing at the highest level; achieving 33rd/1700 at the largest European open.
- **Content Creation & Professional Coaching** | Educational gaming content that transforms complex technical topics into easily digestible infotainment.