DAN HUMPHRIES

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Haggerston ◇ London ◇ UK

PROFESSIONAL SUMMARY

FULLSTACK WEB ENGINEER // Svelte JS // Microservice Systems // Graphic Design // THREE JS hybrid Designer/Developer // Most at home designing and building projects from scratch within a short timespan.

TOOLS & TECHNOLOGIES

Computer Languages	**Proficient:** Python // JavaScript // SQL // HTML // CSS // R // MATLAB
Software & Tools	**Front-end:** Svelte JS // THREE JS // Vue // React // Next // D3 // p5
	Back-end: Supabase // Flask // Docker // K8s // PostgreSQL // MongoDB
	Full-stack GCP // AWS // Linux // GraphQL // Blender // Keras // spaCy

PROFESSIONAL EXPERIENCE

AUFBAU STUDIO   January 2022 - Present
Founder // Web Engineer   *London, UK*

· Creative Web Studio // Bespoke Websites, Systems, Apps // Lightweight and 3D Specialist
· Tech Stack: THREE JS // Svelte // Supabase // Netlify

Midnight Studio   March 2022 - August 2022
Web Engineer (Contract)   *London, UK*

· Fullstack engineer within a digital product agency. Highly autonomous position among technical leads.
· Supporting technical clients including a leading IoT systems agency and a number of digital design projects.
· Tech Stack: Svelte // React // Next // Vercel // Docker // CMS

Applied Behaviour Systems Ltd.   November 2021 - February 2022
Fullstack Developer (Contract)   *London, UK*

· Fullstack developer contracted to take start-up app from prototype to app store release. Brought on a react native developer and junior to deliver a sleek, robust, and scalable application within a 4 month time span.
· Tech Stack: React Native // Next // GCP // Apollo // GraphQL // Docker // Firebase

Kubrick Group   July 2020 - August 2021
Fullstack Developer   *London, UK*

· Design leaning fullstack developer on a community learning platform. Vue.js and Nuxt app deployed on AWS.
· Led product design and engineering in the early development stage of the application. Delivery of PoC within four months. Worked with a small technical team to take product from concept to MVP with DevOps strategy.
· Tech Stack: Nuxt // Vue // D3 // Python // PostgreSQL // MongoDB // AWS // Docker

Proctor & Gamble   November 2018 - June 2020
Machine Learning Engineer   *London, UK*

· Engineer and co-architect on a microservice based data network & machine learning platform. Bespoke system enabled large multinational to run machine learning models on data assets stored across continents using existing internal server architecture. Within 6 months had become co-engineer & architect on project with senior mentor.
· Tech Stack: Python // Vue // Flask // Celery // Docker // PostgreSQL // MongoDB // CUDA // Linux

ACADEMIC SUMMARY

MA Philosophy and MSci Neuroscience Graduate. Interested in mathematical descriptions of mind, knowledge, and representation. Broadly interested in formal links between Neuroscience and Philosophy.

EDUCATION

Kings College London   September 2021 - September 2022
MA Philosophy (Merit)   *London, UK*

· Course of study focused on Kant, Mind, Communication, and Representation.
· Masters Dissertation: 'Carving the Mind at its Joints' with Prof Bill Brewer

University College London   September 2014 - May 2018
MSci Neuroscience (2:1 Hons)   *London, UK*

· Course of study focused on Computational Neuroscience and Dynamic Systems.
· Masters Dissertation: 'Dendritic Spine Stability during Regulative Homeostasis' with Prof Tara Keck
· Bachelors Dissertation: 'Neural Oscillatory Rhythms: Physics & Function' with Dr Lorenzo Fabrizi

TALKS AND CONFERENCES

Bartlett School of Architecture   July 2021 - September 2022
Computational Soul: Guest Seminar   *London, UK*

· Invited to run guest seminar on 'computational soul' as part of the Xalon Digital-Communities lecture series.
· Discussed different types of representation and motion and how these might delineate a notion of 'soul'.
· Discussed what it takes to recognise soul in objects, and what it may take to synthesise 'computational soul'.

RESEARCH PROJECTS

University Of Oxford   July 2021 - Present
Research Assistant   *Oxford, UK*

· Creating a mental state tracking tool with Dr Dan Joyce, a computational and clinical psychiatrist.
· Lightweight and customisable tool to facilitate psychiatric research on the dynamics of mental state over time.

University College London   October 2022 - Present
Research Assistant   *London, UK*

· Working with Dr Alexandra Constantinescu on the analysis of 7T fMRI spatial navigation data.
· Project in initial steps but will be processing and analysing grid-cell and place-cell activity data.