

DAN HUMPHRIES

WWW.AUFBAU.IO // DAN@AUFBAU.IO

Haggerston ♦ London ♦ UK

PAGE 1. PROFESSIONAL CV

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

TOOLS & TECHNOLOGIES

Computer Languages	Proficient: Python // JavaScript // SQL // HTML // CSS // R // MATLAB
Software & Tools	Front-end: Svelte // 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 <i>Founder // Web Engineer</i>	January 2022 - Present <i>London, UK</i>
--	---

- Creative Web Studio // Bespoke Websites, Systems, and Apps.
- Tech Stack: THREE JS // Svelte // Supabase // Netlify // Figma

Midnight Studio <i>Web Engineer (Contract)</i>	March 2022 - August 2022 <i>London, UK</i>
--	---

- 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

Hexis <i>Fullstack Developer (Contract)</i>	November 2021 - February 2022 <i>London, UK</i>
---	--

- 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 <i>Fullstack Developer</i>	July 2020 - August 2021 <i>London, UK</i>
--	--

- 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 <i>Machine Learning Engineer</i>	November 2018 - June 2020 <i>London, UK</i>
---	--

- 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

PAGE 2. ACADEMIC CV

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

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.