

# DAN HUMPHRIES

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Haggerston ♦ London ♦ UK

## PROFESSIONAL SUMMARY

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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

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### Computer Languages Software & Tools

**Proficient:** Python // JavaScript // SQL // HTML // CSS // R // MATLAB  
**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

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### AUFBAU STUDIO

*Founder // Web Engineer*

January 2022 - Present

*London, UK*

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

### Midnight Studio

*Web Engineer (Contract)*

March 2022 - August 2022

*London, UK*

- Fullstack engineer within a digital product agency. Highly autonomous position below agency CTO.
- Owning 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.

*Fullstack Developer (Contract)*

November 2021 - February 2022

*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

*Fullstack Developer*

July 2020 - August 2021

*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

*Machine Learning Engineer*

November 2018 - June 2020

*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

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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

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**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

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**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

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**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.