

Jonathan Hind

London, United Kingdom | +447540156079 | info@jonathanhind.com | jonathanhind.com

Work Experience

Research Software Engineer, CAMHS Digital Lab, King's College London, Apr 2021 - Present - 3 yrs 7 months

- Achievements
 - Architected and deployed an end-to-end AI-driven ADHD diagnosis and monitoring system for the NHS, incorporating:
 - Developed and deployed machine learning models for accurate classification of ADHD using actigraphy data from wearable devices, enabling precise predictions and personalized treatment plans
 - Designed predictive algorithms for personalized drug dosing recommendations, improving patient outcomes and treatment efficiency
 - Implemented real-time sleep activity classification from wearable sensor data, providing critical insights for patient monitoring
 - Developed an automation tool for four NHS trusts, reducing operational costs by over £700k and saving nearly six years of consultant time, significantly improving healthcare efficiency
 - Secured Class IIa medical device classification for PACES+
 - Led end-to-end development of PACES+ app, web portal, and wearable device for ADHD diagnosis, including collaborating with cross-functional teams; managed the myhealthe.nhs.uk web portal for tracking child and adolescent mental health services, ensuring scalability and reliability for thousands of users
- Responsibilities
 - Technical lead of PACES+ app, web portal, and wearable device for ADHD diagnosis; myhealthe.nhs.uk web portal for tracking children's progress in child and adolescent mental health services
- Technologies: AWS, Azure, Python, PyTorch, NumPy, Terraform, Docker, GitHub Actions

Co-Founder, Synthetig, Dec 2019 - Apr 2021 - 1 yr 5 months

Worked in a fast-paced startup, constantly juggling the roles of Product Manager, Machine Learning Engineer and Engineering Lead.

- Responsibilities
 - Built APIs for a range of synthetic data models and developed machine learning models to create synthetic data
- Technologies: AWS, Django, Docker, PostgreSQL, PyTorch

Machine Learning Engineer intern , Benevolent AI, June 2019 - Dec 2019 - 7 months

- Achievements
 - Presented findings to senior leadership, successfully advocating for the integration of these advanced AI techniques in future clinical trial data analysis
- Responsibilities
 - Researched methods for understanding heterogeneous treatment effects using AI to improve patient selection for an Amyotrophic Lateral Sclerosis (ALS) trial

Side Projects

Healthcomply.co, Apr 2024 - Present

- Architected and implemented AI-powered compliance platform using LLMs and RAG
- Technologies AWS, Python, Hugging Face, Django, PostgreSQL, React, OpenAI, DSPy.

Education

- Master of Science in Computer Science (**Machine Learning**), Queen Mary, University of London
- Bachelor of Science in **Physics**, Queen Mary, University of London