Jordan Smith

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Hi, I'm Jordan, a Technical Product Manager based in London. I'm passionate about the use of cutting-edge tech for public good, and I get excited by building great solutions to interesting problems.

CURRENTLY

Behold.ai **London, UK**

Technical Product Manager *April 2022 – Present*

- Owner of Product function for AI HealthTech startup, overseeing development of a computer vision triage tool for x-ray and CT scans.
- Overseen introduction to market, successfully scaling from research phase to commercial deployment in four NHS Trusts across England and Wales. Additional four Trusts launching over the next six months.
- Manage backlog and workflow for a cross-functional team of six.
- Authored research papers and wrote technical blogs (see *Publications* below).
- Created numerous experiments to quantify and mitigate product risks, to demonstrate robustness and to identify areas for development. Defined success criteria and used results to contribute to product roadmap.
- Work closely with current and prospective clients to gain feedback, develop user stories, deliver training and create customer documentation.
- Developed regulatory documentation including model validation, verification and incident reporting.
- Owner of performance, efficacy and monitoring; made measurable improvements to production models.
- Improved tumour sensitivity from 65% to 73% while maintaining specificity.
- Reduced benign overcalls when classifying Suspected Lung Cancer from 10.5% to 3.6%.
- Improved model's capacity for rule-out normal from removing 15% of radiologist workload to removing 18.5% while maintaining 0.97 NPV.

PREVIOUSLY

UK Civil Service (DV Clearance) **Cheltenham/London, UK**

National Defence: Cyber Security and Information Assurance *Mar 2019 - Sep 2020*

- Managed accounts for 50 partner organisations across UK public and private sectors to introduce and deploy cryptographic products, and to audit their use of secure technology
- Team lead for TEMPEST and Dark Web; worked with NCA to architect a system to model threat and detect criminal activity online, presented the approach at a national policing conference.
- Redefined team workflow and output, introducing Agile methodologies and tools such as Jira.
- Responsible for infosec incident reporting nationally, as well as leading subsequent investigations and incident response. Analysed trends and presented results at international conferences.
- Led project to rewrite technical government standards on use of cryptographic devices.

Marston's PLC **London, UK**

Key Account Manager *May 2018 – Mar 2019*

National Account Executive *Oct 2016 - May 2018*

- Managed several national accounts for large bar and restaurant chains.
- Negotiated numerous new commercial agreements and managed a budget.
- Grew volume for targeted brands by 66% vs LY across national accounts.
- Managed prospect pipelines for a team of Regional Sales Managers.

EDUCATION

University College London (UCL) **Distinction**

MSc Computer Science *Sep 2020 - Sep 2021*

Delivered projects for:

IBM NHS Microsoft UCL GREAT ORMOND STREET INSTITUTE OF CHILD HEALTH INDUSTRY EXCHANGE NETWORK

Durham University **1st Class (Hons)**

BA (Hons) Music *2012-2015*

PUBLICATIONS

'*Real-World Performance of Autonomously Reporting Normal Chest Radiographs in NHS Trusts Using a Deep-Learning Algorithm on the GP Pathway*' - Smith, et al (2023)	`pre-print (arxiv)`
'*Robustness of an Artificial Intelligence Solution for Diagnosis of Normal Chest X-Rays*' - Dyer, et al (2022)	`pre-print (arxiv)`
'*Enhancing Early Lung Detection on Chest Radiographs with AI-assistance: A Multi-Reader Study*' - Dissez, et al (2022)	`pre-print (arxiv)`
Nipples and nodules: Reducing overcalls when classifying suspected lung cancer in chest x-rays	`Behold.ai blog`
Implementing red dot® for the Covid-19 pandemic	`Behold.ai blog`
Real-world performance of Behold.ai's red dot® chest x-ray solution	`Behold.ai blog`
Leveraging red dot® to tackle radiology backlogs	`Behold.ai blog`
CARE4CF: A Progressive Web App for Logging Daily Activities	`Microsoft Dev Blog`

I am a regular peer reviewer for European Radiology in the medical AI field.

RECENT PROJECTS

Check out my portfolio for more: `tinyurl.com/jordanjwsmith`

Dancing Spider (Generative AI Hackathon runners-up) *April 2023*

`dancing-spiders-web.vercel.app/`

- **Languages & Tech:** Python, stable-diffusion, Node.js, GPT-4
- **Focus:** Generative AI, Community
- As part of the 2023 Generative AI London Hackathon, I worked in a team of 6 to build Dancing Spider, an app to convert podcasts into playful videos.
- MP3 audio files are uploaded and transcribed. A summary text is generated using GPT-4, and a series of image prompts are extracted. An audio voiceover is generated using ElevenLabs and combined with stable-diffusion images to create a short, engaging summary video.
- A panel of industry judges placed our team second in two categories

song-to-image *Sep 2022-Mar 2023*

`github.com/JordanJWSmith/song-to-image`

- **Languages & Tech:** Python, HuggingFace, stable-diffusion
- **Focus:** Generative AI, lightweight inference
- I recently built an app that takes a given song title and artist, and generates an image using stable-diffusion. The image is inspired by the given song's lyrics.
- The Genius API is used to webscrape the song's lyrics, which are processed and cleaned. An extractive summarizer model selects a central, prominent lyric, which forms part of the image prompt. A 'magicprompt' model is optionally used to enhance the prompt. The returned image is annotated and saved.

ImageFolder-Relabel *Dec 2022-Jan 2023*

`github.com/JordanJWSmith/ImageFolder-relabel`

- **Languages & Tech:** Python, TKinter
- **Focus:** Pytorch integration, computer vision, dataset-cleaning, lightweight GUI
- I recently built a lightweight image relabeling toolkit for integration with Pytorch's ImageFolder framework.
- As with Pytorch ImageFolder, simply point the package at an image directory. The GUI infers existing image labels based on their directory structure, and allows the user to easily navigate through and relabel.
- Relabeled images are refactored into the new corresponding directory.
- The user can draw bounding boxes by dragging over the image. These are exported in a JSON file.

SKILLS & QUALIFICATIONS

- **Languages & Tech:** Python, PyTorch, Pandas, Django, TKinter, SQL, NoSQL, Javascript, Nodejs, Express, VueJS, Figma, Jira, UML, Git
- **Qualifications:** MoR Certified Risk Management Practitioner, CQI and IRCA Certified ISO9001 Lead Auditor, QA Certified ISO27001 Practitioner, BCS CISMP, EM Security and TEMPEST Fundamentals