Dr Jeremy Tsz Kwan Chui

Health Tech Professional

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Innovative and results-driven professional with extensive experience leading cross-functional teams, developing cutting-edge medical technologies, streamlining healthcare operations, and driving clinical data analysis. Expert in translating complex health and scientific concepts into actionable insights, significantly enhancing patient care and operational efficiency. Specialist at balancing the demands of technological advancement with the practicalities of clinical need to deliver effective solutions.

Areas of Expertise

- Healthcare AI Development
- Statistical Data Analysis
- Regulatory Compliance
- Wireframing & Prototyping
- User Experience
- Design Thinking
- Project Management
- Cost Optimisation
- Healthcare Technology

Selected Accomplishments

- Pioneered developing and launching a medication tracking system at Pillbox Health in 2021, deploying innovative conductive ink technology after comprehensive research with over 50 stakeholders.
- Co-developed a critical app to monitor decision fatigue among intensive care consultants at Northwick Park Hospital, leading to its feature in Anaesthesia News and a presentation at the ISICEM 2022 Conference.
- Engineered a transformative aid for the Foundation Programme Application System in 2019, producing over 20,000 annual reports and significantly improving recruitment transparency and efficiency for UK doctors and medical students.
- Launched a novel collaboration software at Hive in 2013, leading a team of six to create a distraction-minimising tool for SMEs, securing a £375,000 valuation through a competitive accelerator programme.
- Orchestrated the global rollout of UniReq's web-based application in 2012, dramatically expanding access to UK university courses for over 13,000 users globally and revolutionising educational candidate assessment.

Career Summary

Doctor (Anaesthetics / Emergency Medicine)   **2017 - Present**
National Health Service, United Kingdom

- Evaluate and diagnose patient conditions, developing personalised treatment plans to facilitate recovery.
- Delivery of anaesthesia, prioritising safety and personalised care for enhanced patient outcomes.
- Work closely with multi-disciplinary teams to create care plans that enhance the effectiveness of treatments.
- Stay updated on medical advancements and incorporate new and innovative practices into patient care.
- Effectively convey intricate medical information to patients and their families.
  Accomplishments:
- Improved patient care indicators by conducting clinical research audits, implementing enhancement efforts, and evaluating services; presented and ran workshops at multiple international conferences (AMEE).
- Applied specialist knowledge in Anaesthesiology, Emergency Medicine, Intensive Care Medicine and Pre-Hospital Medicine.

Module Co-Lead, MSc Healthcare & Design   **2022 - Present**
Imperial College London & The Royal College of Art, United Kingdom

- Collaboratively developed and refined the MSc curriculum, ensuring alignment with industry standards and student needs.
- Facilitated lectures, workshops, and seminars, engaging students in innovative healthcare design concepts.
- Coordinated with faculty and external industry experts to integrate interdisciplinary perspectives into the coursework.
  Accomplishments:
- Oversaw content development and delivery for the Principles of Design and Innovation and Health Business Toolkit modules.
- Coordinated the delivery of two postgraduate modules and workshops in healthcare research, design research methods, and design-led innovation in healthcare, ensuring the integration of academic and practical applications.
- Boosted cross-functional collaboration between two universities by coordinating with academic departments, healthcare organisations, and multidisciplinary professionals to effectively deliver module content.

Founder   **2024 - Present**
cleardoc.net

- Engineered an AI-driven solution to enhance and deliver medical jargon-free documents to patients.
- Pioneered a healthcare AI tool that demonstrated significant potential to boost health communication and care quality.
- Facilitated lectures, workshops, and seminars, engaging students in innovative healthcare design concepts.
- Leveraged Next.js, Vercel, Typescript, Convex, OpenAI, Gemini in the development of the application.

Designer   **2017 - Present**
Multiple Projects, United Kingdom

- Implemented a design thinking framework encompassing all stages from user research to usability evaluations.
- Served as Lead Product Designer at Pillbox Health, Service Designer at Northwick Park Hospital, and Front-End Engineer at FPAS-Calculator, driving innovative solutions in healthcare.
- Conducted research to enhance the transparency of application procedures for UK-based medical programmes.
- Developed a medication tracking system using conductive ink technology, improving patient engagement.
- Led a team to design an app assessing the effects of decision fatigue, improving consultant well-being in intensive care.
- Collaborated with healthcare professionals to conceptualise and develop streamlined workflows, optimising the operational efficiency of the intensive care unit.
    Accomplishments:
- Steered user research involving over 50 patients / caregivers to inform the design and functionality of healthcare solutions.
- Presented the impact and findings of the decision fatigue app at the ISICEM 2022 conference.
- Engineered and launched a recruitment aid that has generated over 20,000 annual reports; identified transparency issues within the FPAS application process, leading to significant procedural improvements.

Co-Founder / Lead Designer   **2013 – 2014**
Hive, United Kingdom

- Ensured alignment of project goals and deliverables by managing cross-functional teams and coordinating efforts between developers, marketers, and stakeholders.
- Heightened app functionality and design by iteratively improving based on user research and usability testing feedback.
    Accomplishments:
- Achieved a high user engagement and seamless experiences by designing and conceptualising innovative app interfaces.
- Directed a six-member team in developing and launching a distraction-minimising collaboration software specifically designed for SMEs, culminating in a £375,000 valuation via an accelerator programme.

Founder / CEO   **2012 – 2014**
UniReq, United Kingdom

- Developed and implemented strategic plans to guide the company towards achieving its long-term objectives.
- Oversaw operations to ensure they produced the desired outcomes and aligned with the company's overall strategy.
- Built and maintained relationships with key stakeholders, including investors, partners, and industry leaders.
    Accomplishments:
- Supervised a team responsible for the global rollout of a web-based application that assesses candidate suitability for eight different UK university courses, attracting a user base of over 13,000 worldwide.

Qualifications

- **AI in Healthcare Specialisation**, Stanford University, 2024
- **FRCA Primary SBA**, Royal College of Anaesthetists, 2023
- **MRCEM**, Royal College of Emergency Medicine, 2023
- **Master of Science in Healthcare & Design (MSc)**, Imperial College London & The Royal College of Art, 2021
- **Bachelor of Medicine & Bachelor of Surgery (MBChB)**, University of Sheffield, 2017
- **Bachelor of Medical Sciences (BMedSci)**, University of Sheffield, 2014

- **Advanced Trauma Life Support**, Royal College of Surgeons of England, 2022
- **Advanced Life Support**, Resuscitation Council (UK), 2021
- **European Paediatric Advanced Life Support**, Resuscitation Council (UK), 2021
- **BASICS Pre-Hospital Emergency Care Course**, British Association for Immediate Care, 2021