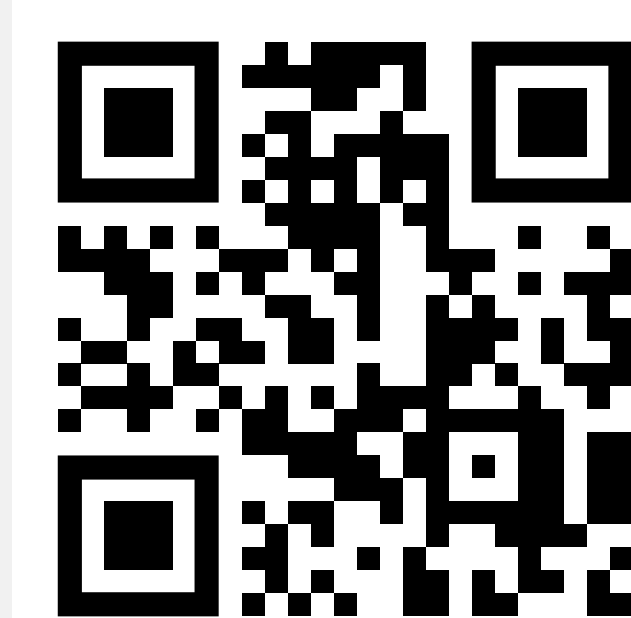


Tom Lodge

Research Fellow, Full Stack Developer



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I am a Research Fellow at **Horizon Digital Economy Research**, University of Nottingham. I have expertise in networking technologies, data visualisation and front and backend development. I have led technical development on a number of government funded projects and have collaborated with companies including the BBC, Microsoft, BT and Unilever. I am on the lookout for interesting and/or experimental projects that will draw upon a range of technical and design skills.

Frontend skills

Languages: **Javascript HTML5/CSS3**

Frameworks: **React, React Native, D3.js, Next.js, Tailwind**

Backend skills

Languages: **Javascript (Node), Python, Java**

Hosting: **Digital Ocean, Github pages, AWS, Heroku, Vercel**

OS: **Linux, MacOS**

Devops: **Docker, Kubernetes, Nginx**

Databases: **Postgres, Mongo, MySQL, Neo4j, Google Cloud**

Employment history

Horizon Digital Economy Research, Nottingham University

2021 - Current

Research Fellow

Mixed Reality Lab, Nottingham University

2013 - 2021

Research Fellow

Open and Distance Learning, Queen Mary, University of London

2002 - 2005

Research Associate

Networks and Multimedia Research Group, UCL

2000 - 2002

Research Associate

Recent projects (a selection)

Adaptive Podcasts

2022 - now



[view on github](#)

I am project lead on a collaboration between The Horizon Institute, BBC R&D and Lancaster's Imagination Research Lab. We are using a pre-release of BBC's adaptive podcast platform and our caravan (see below) to develop mechanisms for multiple people to engage with adaptive podcasts and to negotiate access to co-owned sensor data.

Experiencing the Future Mundane

2020 - now



[view on github](#)

This project is instrumenting a caravan with prototypes that present a version of a future living room. The project is in collaboration with Lancaster University and the BBC and has been exhibited at events and museums across the country. I have developed the web-based authoring package and engine that communicates with a variety of sensors and allows us to quickly test and deploy new experiences within the caravan.

IoT Databox

2016 - 2020



[view on github](#)

This was a multi-institution project (Cambridge, Nottingham, Imperial, BBC and BT) that built a privacy-supporting device that manages a user's IoT data by storing it within the home and allowing 'apps' to process data locally (i.e. without ever exporting it to the cloud). I developed a web-based IDE for building privacy-compliant apps.

User Centric Networking

2014 - 2016

This was another multi-institution project that developed content and recommendation systems based upon user network behaviour. In collaboration with ethnographers, I built data visualisation tools that supported detailed analysis of data collected from households across the UK and France.

Homework

2009 - 2012

This was a four year, five institution (Nottingham, Imperial, Glasgow, Microsoft, BT) project that designed and studied tools for home networking support. I was part of a team that built a Linux router and two iPhone apps that presented network visualisations and offered policy-based control of a home network.

Education

University of Nottingham, PhD

2006 - 2012

Opportunistic Data Collection in People-Centric Sensor Networks

University College London, MSc

1999 - 2000

Data Communication Networks and Distributed Systems

Award: Distinction

Queen Mary, University of London, BSc

1996 - 1999

Computer Science

Award: First Class, Drapers award for "outstanding academic achievement"