PERSONAL DETAILS

👤 **Name**
Daniel Tattan-Birch

🏠 **Address**
London

✉ **Email**
dantb@hotmail.co.uk

🌐 **Nationality**
United Kingdom, Ireland (EU Citizen)

🔗 **LinkedIn**
linkedin.com/in/dantb

🖥 **Website**
dantb.dev

SKILLS

Functional Programming
Scala
Typelevel
Functional software design
OOP software design
Testing techniques
Data Modelling
Content Management Systems
Databases
Web API Development
Distributed Systems
Cloud-based Automation
Third party integrations

DANIEL TATTAN-BIRCH

Senior Software Engineer with a preference for pure functional programming. I built and now maintain the ITV News backend systems using a Scala Typelevel stack. I have previous experience building statistical models in Scala and financial trading applications in C#.

Broadly, my technical interests include domain modelling, software design patterns, functional programming and their application to real world problems. Working on my MSc dissertation also sparked an interest in effect systems and programming language research.

My GitHub username is dantb and an extended version of this CV can be found online at dantb.dev/cv.

💼 WORK EXPERIENCE

Dec 2018 - Present

Senior Scala Engineer
ITV, London

Developed distributed systems supporting various ITV products such as ITV News, ITVX and sites for various programmes. All our backend applications are built using a Scala Typelevel stack.

Dec 2017 - Dec 2018

Software Engineer
Football Radar, London

Football Radar perform statistical analysis on data collected from football matches and generate real-time predictions based on the models. I was part of the modelling team, working closely with data scientists to understand and implement algorithms to improve our predictive models.

Sep 2015 - Dec 2017

Full-Stack Developer
Fidessa, London

Developed enterprise investment management systems for financial institutions. Specifically we built native .NET frontend applications and C++ microservices.

🎓 EDUCATION

Oct 2017 - 2022

M.Sc. in Software Engineering, Distinction
University of Oxford

A flexible part-time course designed for software professionals. Initially joined with the goal of filling my most obvious knowledge gaps. This was broadly successful and the course played a big part in guiding my technical interests.

Dissertation: Comprehending Pure Functional Effect Systems

Dissertation keywords: Haskell, Scala, Functional Programming, Effects, Design Patterns, Monads, Extensible Effects.

Course keywords: cloud computing, big data, database design, deep learning and embedded systems.

Mark: 80.

2012 - 2015

B.Sc. in Mathematics, First-class Honours
University of Warwick