

# Peter McNeil

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## PROFILE

Product-focused software engineer with 8 years' experience building and scaling systems for major organisations. Specialise in full-stack development, system architecture, and technical leadership. Track record of delivering high-impact projects across sports technology and media, with expertise in Go, TypeScript/React, and cloud platforms.

## EDUCATION

University of Brighton — BSc (Hons) Software Engineering - First Class - 2019

## EXPERIENCE

### SPORTABLE

Senior - Staff Software Engineer

August 2022 to Present:

Product engineer delivering real-time sports technology solutions for Arsenal, Women's Super League, CFL, AFL, Atletico Madrid, and others.

#### **Scaled legacy system (2022-2024)**

Inherited a proof-of-concept system handling 1 game per year. Scaled to 20 games per week while improving security, reliability, and data delivery. Established testing and monitoring practices; achieved 50% reduction in main game loop execution time through profiling and optimisation. Full-stack work across TypeScript/React/Electron frontends, Go backends (on-device and cloud), deployed on AWS.

#### **Led re-architecture (2025-present)**

Co-led greenfield project with cloud architect to migrate from on-device monolith to flexible cloud-based microservices while moving to GCP. Designed and implemented multiple subprojects enabling clients to access data and insights more easily.

Reduced infrastructure costs by 90% while removing deployment bottlenecks and improving time-to-market

#### **Built data platform and ML infrastructure**

Developed data warehouse (Bigquery/dbt) and ETL pipelines for post-game algorithm processing. Designed live streaming infrastructure using Dataflow and replay system with scrubable session data. Translated machine learning algorithms from Python to Go for on-device deployment; later integrated Python interpreter into Go binary. Enabled data scientists to deploy algorithms independently.

#### **Leadership and mentoring**

Mentored numerous engineers including placement students. Conducted technical interviews and improved hiring processes. Implemented and expanded software planning processes. Software representative in AI working group.

**Key technologies:** Go, TypeScript, React, Python, Postgres, InfluxDB, AWS, GCP, Terraform, Linux, CloudRun, BigQuery, DBT

## **BBC**

Trainee - Senior Software Engineer

August 2017 - August 2022

Rapid progression from industrial placement to senior engineer across BBC News and Elections teams, working on systems serving 400m+ monthly active users.

### **Elections**

Part of elections engineering team for 2 years before leading 5-person team for final 6 months. Led cross-functional group (8 total including UX, test, product, and project roles). Replaced legacy election results system with serverless event-driven architecture handling all UK elections across 6 different electoral systems. Reduced cost from £10,000-£20,000 per election to under £30 using S3, Lambda, and Aurora Serverless.

### **SEO and market data**

Owned BBC News Sitemaps project, upgrading system to output video links and increasing video impressions by 50%. Built replacement market data API three months ahead of schedule, maintaining compatibility with existing systems for seamless transfer of system.

### **Backend development**

Developed and maintained Trevor, BBC News' backend system serving 400m+ MAU. Contributed to BBC-wide article consolidation API bringing multiple systems under one interface.

**Key technologies:** AWS, Postgres, Redis, Java, Scala, React, TypeScript, Python

## **SKILLS**

**Languages:** Go, TypeScript, JavaScript, Python, Java, Scala

**Frontend:** React, Tanstack, Electron

**Backend:** Postgres, Redis, InfluxDB, Aurora

**Cloud & DevOps:** AWS, GCP, Terraform, Lambda, S3, GitHub Actions, Linux

**Practices:** System architecture, performance optimisation, mentoring, agile processes

### **Project Links**

<https://www.bbc.co.uk/news/election/2022/northern-ireland/results>

<https://www.bbc.co.uk/news/articles/cvgl0zprpjeo>

<https://www.ft.com/content/657d9b28-fe19-4c44-9a57-04eefb5f215f>