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## Skills

- **Languages:** Ruby, JavaScript, Go, SQL
- **Web Frameworks/Libraries:** Rails, Sinatra, VueJS, GOV.UK Design System
- **Platforms:** Digital Ocean, Netlify, Microsoft Azure, Heroku, Amazon AWS
- **Relational Database Management Systems:** PostgreSQL 7.3–12, MySQL 4.1–5.7, Microsoft SQL Server 2000 and 2005; including an extensive knowledge of user-defined functions, stored procedures, views, indexing strategies, procedural languages (including PL/Ruby, PL/Python, PL/pgSQL and Microsoft T-SQL)
- **Testing:** RSpec, Cucumber, Minitest, Selenium, Capybara
- **Geographic:** PostGIS, QGIS, Leaflet, OpenLayers
- **Version Control/Project Management:** Git, Subversion, Jira, Confluence, Trello
- **Markup/Serialised Data:** HTML, CSS, Slim, Sass, XML, XSLT, YAML, JSON, Jbuilder
- **Operating Systems:** Linux, Unix, macOS
- **Miscellaneous:** Vim,  $\text{\LaTeX}$ , Bash, Zsh, Ansible, Capistrano, Redis

## Employment History

- **Software Developer** **December 2018 — December 2019**  
Department for Education (via Engine Group) (contract)
  - part of the team that built and launched School Experience, a project that gives prospective teachers real experience in the classroom and allows schools to manage placement requests
  - took part in the entire user-centred design process including conducting user research, observing users, prototyping and testing
  - created the GOV.UK Design System Form Builder, a library that implements a Rails form builder that adheres to the GOV.UK Design System. Currently used by several live services and listed on the official resources and tools page of the design system documentation
- **Founder** **March 2017 — Current**  
Graphia Ltd
  - designed and created Graphia CMS, a version-controlled documentation management system
  - undertook a number of short-medium term software development and data engineering contracts
- **Technical Lead** **August 2011 — February 2017**  
Capita Translation and Interpreting
  - designed and lead the development of internal interpreter booking platform
  - implemented a new development infrastructure and standards project, encompassing code review, automated testing, continuous integration & deployment
  - initiated the company's transition from non-relational to relational databases
  - built a self-serve management information portal that is used throughout the business
- **Web Developer** **November 2008 — September 2010**  
Setfire Media
  - developed web sites and applications for large clients
  - helped reimplement On The Beach Holidays' website, originally written in Minivend, in Ruby on Rails

- implemented unit and integration tests for all projects, development undertaken in a BDD environment
  - performed a variety of system administration tasks on Debian 5.0 and CentOS 5 servers
  - held responsibility for database administration on all projects, tasks included query optimisation, setting up replication and managing permissions on MySQL 5.1 and PostgreSQL 8.3+
- **Senior Information Analyst** **August 2007 — November 2008**  
Salford Royal Foundation Trust
    - designed and implemented performance-related reports to help trust meet NHS targets
    - wrote queries and created Microsoft SQL Server 2000 database objects using Microsoft T-SQL
    - assisted with the advancement of the internal development methodology
    - performed database optimisation, troubleshooting and maintenance
  - **Software Engineer** **October 2006 — August 2007**  
Clicks And Links Ltd.
    - developed and maintained web sites written in Ruby On Rails, Zope and Django
    - designed database back-ends for web applications in PostgreSQL
  - **Database Programmer** **November 2005 — May 2006**  
Harrington Brooks Accountants Ltd. (contract)
    - developed back-end data objects for new IVA system in Microsoft SQL Server 2000
    - provided technical assistance to IT team while bug-fixing internal systems in Visual Basic 6.0
    - implemented company-wide source control infrastructure with Subversion
  - **Programmer** **November 2004 — November 2005**  
Egton Medical Information Services
    - developed software used in the primary care sector for management of medical records and administrative purposes
    - obtained Microsoft Certified Professional qualification in Programming SQL Server 2000 (2073)

## Education

- **Manchester Metropolitan University** 2001–2004  
BSc. Hons Information Technology (2:1)
- **North Chadderton Sixth Form College** 1999–2001  
A-Levels in Biology, Information Technology, Chemistry
- **North Chadderton School** 1994–1999  
9 GCSE (A-C) including: Science, Maths, English