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**Graphia Ltd**  
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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, L<sup>A</sup>T<sub>E</sub>X, Bash, Zsh, Ansible, Capistrano, Redis

## Employment History

- **Software Developer** **October 2020 — Present**  
(contract)  
Department for Education (via Digi2al)
  - helped build the Get Into Teaching website, the Department for Education’s primary teacher recruitment tool
  - ran courses helping upskill staff on the use of Git, Markdown and using collaboration tools with the aim of encouraging direct contributions to their projects
  - lead the development of the GOV.UK Components library for Rails, a library now used throughout the Department for Education and listed on the GOV.UK Design System page of community resources
- **Software Developer** **December 2018 — June 2020**  
(contract)  
Department for Education (via Engine Group)
  - 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
  - released the GIAS query toolkit, aimed at helping user researchers better target schools for research
  - 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 more than thirty 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 and deployment
- initiated the company’s transition from document 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**  
EMIS

- 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