

David Griffiths

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Personal Profile

I am a highly motivated Mathematics PhD who enjoys applying his imagination and creativity to everything I do. After completing post doctoral research abroad in Switzerland and France, I have applied my strong analytical skills and problem solving skills in a number of software development roles in C/C++, Java and VBA for Microsoft Access.

I am currently enrolled on the Development Professional Programme, which has been self funded. This course has exposed me to a range of web technologies including NodeJS, Wordpress, C#, ASP.NET and WebMatrix. Through projects (#1,#2,#3,#4) I have gained experience, confidence and understanding of HTML5, CSS, PHP, Laravel, Python, Django, MySQL, SQLite, PostgreSQL, Git Hub, Bootstrap, JQuery, Ajax, XML, JSON, RESTful and Linux.

I look forward to establishing myself as a PHP/Python Developer within a progressive company who will provide me with support both personally and professionally to help build my career.

Education and IT Training

05/16-Present

Just IT Training Ltd, London
Development Professional Programme

10/96-09/98

Université de Bordeaux
Post Doc in Mathematics Séjour Scientifique de Longue Durée

10/94-09/96

Ecole Polytechnique Fédérale de Lausanne
Post Doc in Mathematics Royal Society Exchange Fellowship

10/90-09/94

Kings College London
Ph.D. Mathematics, Thesis: *"Geometry of the mapping class group in genus two"*

10/89-08/90

Warwick University
MSc Mathematics

10/85-09/88

Sussex University
BSc Mathematical Physics - 1st class

IT Skills

Software Development Skills: MS Office, Eclipse/Atom (*projects#1,#2,#4*), PyCharm (*project#3*), Linux(*Ipstech,project#3,#4*), CVS (*Entuity*), GitHub (*projects#1,#2,#3,#4*)

Web-Technology: HTML+Bootstrap+CSS(*projects#1,#2,#3,#4*),JavaScript+jQuery +Ajax(*project#2*),Django(*project#3*), Laravel(*project#4*)

Core Programming Languages: PHP (*project#1,#2,#4*), Python (*project#3*), Java/J2EE (*Ipstech*), C/C++ (*Entuity*)

Database Development Skills: MySQL (*Entuity, projects#1,#2,#4*), SQLite+PostgreSQL (*project#3*), MS Access/VBA (*Richmond Council, QWS Ltd, Footprint Fuels, Commercial Waste*)

Project#1: PHP, MySQL, Git Hub, HTML, Bootstrap, CSS, Eclipse

(PHP MySQL Login)

Project#2: PHP, YouTube API, MySQL, Git Hub, JQuery, Ajax, HTML, CSS,
(YouTube Favourites) Bootstrap, Eclipse

Project#3: Python, Django, MVC, Linux, SQLite, PostgreSQL, Git Hub, XML,
(Football stats service)JSON, RESTful, HTML, Bootstrap, CSS, PyCharm

Project#4: PHP, Laravel, MVC, Linux, Vagrant, YouTube API, MySQL,
(Laravel YouTube Favourites) Git Hub, HTML, CSS, Bootstrap, Atom

Employment History

10/13-06/16 **Commercial Waste, Twickenham & Biffa Waste Services, High Wycombe**

IT Assistant and Special Projects

- Commercial Waste (turnover £4 million), waste broker and waste collector was acquired by Biffa Waste Services on 01/11/16
- My problem solving skills were needed design and build a CRM MS Access database, handling contract management, subcontractor management, logistic management, customer invoicing, contract allocation and call centre management
- My team working and customer service skills were needed when I would manage the call centre team
- I showed my flexibility and adaptability working part time within accounts, part-time, handling invoice queries and as a credit controller
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04/07-10/13 **Proper Oils, Twickenham / Shepherds Bush - Database Developer / Investor / Consultant**

Footprint Fuels, West Molesey / Bedfont - Managing Director / Co-Founder / Investor

- In April 2007 I joined Proper Oils as db developer / investor. In September 2007 I left to cofound Footprint Fuels. In April 2013 the goodwill was sold to Proper Oils and I joined as a consultant
- Time management and organisational skills were needed to supervise waste cooking oil pouring and biodiesel production
- Preparation of the *Environmental Permit Application for Low Impact Installation for the Production of Biodiesel* needed both my written and verbal communication skills
- Troubleshooting and problem solving skills were needed to optimize biodiesel production

11/04-11/06 **Quality Waste Services, East Twickenham - Database Developer / Manager / Investor**

- Invested £10K to purchase 10% shares in 2004. Realised 500% return on investment when the waste management company was sold to PHS Group in September 2006
- My problem solving skills were needed to design and develop CRM MS Access database which handled contract management, logistic management, document generation, customer invoicing and customer pricing

04/03-11/04 **Commercial Waste Department, Richmond Council, Twickenham - Technical Officer**

- My customer service skills, flexibility and adaptability were shown when driving around the borough get customers to sign Duty of Care Notes
- My problem solving skills determined that there was needs to migrate the (£5M turnover) waste management administration from excel spreadsheets to an MS Access database. I then designed and built a database to handle contract management, logistic management and document generation.

09/01-10/02 **Ipstech Ltd, Marylebone, London - CRM Software Design**

- Isptech was a Java J2EE CRM software start-up working on applications specific to the travel industry using Linux
- Worked closely with potential clients to gather user requirements and draw up application design

04/00-09/01 Entuity, Liverpool Street, London - Junior C/C++ Developer

- Greatly Improved my understanding of network infrastructure through developing modules for the award winning network management software *Eye of the Storm*
- Gained knowledge and experience of version control through Concurrent Version System (CVS)

Interests and Achievements

Computer: I have always enjoyed re-installing Windows on PCs and laptops both for professional, personal and family usage

Excel: I was commissioned to analyse an investment strategy with decisions based upon trigger movements of the FTSE. I modelled investment strategy against historical FTSE data and historical FTSE sector data in Microsoft Excel and the strategy showed the potential to make excellent returns.

Travelling: In 1999 I travelled around the world from Venezuela to Zimbabwe, including Angel Falls, the Galapagos Isles, and Machu Picchu, learning to dive in Fiji and to learning to paraglide in South Africa. From December 2006 to April 2007 I again travelled, this from Mexico to Thailand, including tandem sky-diving in Puerto Escondido, seeing in the New Year in Tokyo, and visiting the World Heritage inspiration for Tomb Raider, Angkor Wat.

Academic Publications

- *At most 27 length inequalities define Maskit's fundamental domain for the modular group in genus 2* (Geometry & Topology Monographs Volume 1: The Epstein birthday schrift p167-p180 arxiv.org/pdf/math/9811180.pdf)
- *The side-pairing elements of Maskit's fundamental domain for the modular group in genus 2*
(Annales Academiæ Scientiarum Fennicæ Mathematica Vol. 26, 2001, p3-p50
www.emis.de/journals/AASF/Vol26/griffith.pdf)

References available upon request