

Dr David Voong

voong.david@gmail.com
www.davidvoong.co.uk
Telephone: +447795990807

PROFILE

DATA SCIENCE AND DATA DRIVEN WEB APPLICATIONS

As a data scientist I specialise in data driven insights into complex problems via visualisation and mathematical modelling methods especially in the context of large volume quantitative data produced at high rates. I have a strong background in statistical and computational data analysis techniques and their use within distributed systems technologies.

I have a broad set of web development skills across the full stack which allow me to present this information in an accessible, informative and interactive way. In addition to this I also have experience in devops and testing which allows me to quickly develop robust and scalable applications.

I am looking for a challenging and rewarding work environment with a strong ethic in team work, opportunity for development and a focus on innovation.

COMPUTER SKILLS

PROGRAMMING LANGUAGES

Python and **C++** objected orientated programming and test driven development.

DATA ANALYSIS

ROOT - Standard data analysis framework used in High Energy Physics. **Numpy**, **scipy**, **pandas** and **matplotlib** stack for data scientists. **MongoDB**, **MySQL**, **PostgreSQL** and **SQLite** databases. **DIRAC** and **Hadoop** distributed systems. **D3.js** interactive data visualisations.

WEB

HTML, **CSS**, **Bootstrap**, **Javascript**, **JQuery** and **Django**. **Fabric**, **Ansible** and **Docker** deployment and configuration tools. Various **IAAS**, **PAAS** such as **DigitalOcean**, **Bluemix** and **Azure**.

WORK EXPERIENCE

OPENTRV DATA SCIENTIST | DEVELOPER

July 2015 - Present | London, UK

OpenTRV are an IoT company that specialise in the production of intelligent radiator valves which optimise comfort and efficiency. At OpenTRV I work on building their web data platform and energy efficiency optimisation system.

LEARNING SCIENCE LTD SCIENTIFIC DESIGNER

August 2014 - April 2015 | Bristol, UK

Learning Science is a specialist in using innovation in technology to improve and modernise education. At Learning Science I worked as a scientific designer and developer of interactive Physics simulations for use as learning resources and tutorials for university level education.

PROJECTS

COMMONPLACE CONSULTANT | DEVELOPER

September 2015 - Present | London, UK

Commonplace is a web and mobile platform aimed at building communities in London in order to tackle alienation, gang culture and violent extremism. The project is a collaboration between International Alert and peace building community.

POLLUPLA PROJECT LEAD | DATA SCIENTIST | DEVELOPER

July 2015 - Present | London, UK

Pollupla is a property search engine which incorporates air pollution data. We aim to provide users with insight into where they choose to live, businesses with market insight and new air pollution standards relevant to the average person.

EDUCATION AND RESEARCH

UNIVERSITY OF BRISTOL PHD IN PARTICLE PHYSICS

2009 - 2014 | Bristol, UK

Data analysis of particle production rates from proton-proton collision data and software driven detector alignment for the Large Hadron Collider Beauty (LHCb) experiment at the CERN Laboratory in Switzerland.

UNIVERSITY COLLEGE OF LONDON MSc IN PHYSICS

2006 - 2007 | London, UK

Software development of the RIVET project (<https://rivet.hepforge.org>), a tool used for the comparison of experimental and simulated data together with tuning methods for the corresponding phenomenological models.

UNIVERSITY OF LEICESTER BSc IN PHYSICS

2002 - 2005 | Leicester, UK

Surface growth simulation using accretion models and Monte Carlo driven methods.

REFERENCES

MARK HILL, OPENTRV Co FOUNDER

Mark@opentrv.uk

PROFESSOR NICK BROOK, DEAN OF SCIENCE, UCL

Nick.Brook@cern.ch