

# Marcus Povey

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## Experience

### **Instruct ERIC (2019 – Present)**

*Senior Developer*

- Instruct ERIC is a pan-European organisation which makes high-end structural biology research technologies and methods available to researchers.
- Senior developer on the core ARIA service.
- Part of a growing development team, introduced new Agile processes to increase team productivity & ran SCRUM sessions.
- Involved in setting direction, architecture design, and was involved in high level discussions, team management and mentoring.
- Development of modern microservice based architecture, including leading development of modern GraphQL based APIs.
- Involved in numerous high impact projects, including the European Open Science Cloud, LifeScience ID and COVID-19 protein research portal.
- Helped shape EU Open Science data sharing policy & represented Instruct at a high level, and was involved with multi-nation projects, including CORBEL & EOSC-Life.
- Delivered presentations at pan-european scientific conferences, lead workshops and meetings.
- PHP, ARIA, JavaScript, Node, GraphQL, REST, React, OAuth, OpenID Connect, DevOps, MySQL, KeyCloak, FAIR principles, Agile & Scrum.

### **Marcus Povey Consulting (2007 – Present)**

*Owner / Freelance*

- Successful consultancy and ISV company, specialising in Elgg and Known platforms
- Help businesses and individuals build modern, secure, web applications

## Notable Projects

### **KQED Teach – [teach.kqed.org](http://teach.kqed.org)**

- KQED is one of the largest public media broadcasters in the United States
- KQED Teach is a major media literacy platform / lightweight course management platform
- Built large part of core platform, including integrations with Elastic Search, Open Badges, Amazon Cloud (AWS) support, integrations with Twitter, Facebook, Github and LinkedIn
- Collaborated with a large remote team of developers and open source contributors
- Won NAMLE MLM Award in 2017 (previous winners include the PBS NewsHour, The Daily Show With Jon Stewart, Snopes.com, Creative Commons, and the Ella Baker Center/Van Jones)
- PHP, JavaScript, HTML/CSS, Known, Elastic Search, Open Badges, Amazon Cloud (AWS)

### **Minds LLC – [minds.com](http://minds.com)**

- Minds.com is a free speech focussed encrypted Facebook alternative
- Built much of the initial product functionality (which was based on Elgg / Elgg Multisite), including multiple domains, PayPal/Bitcoin payment systems, WordPress integration, and connection with 3<sup>rd</sup> party APIs
- Worked with a distributed team to convert platform to modern Cloud infrastructure including Amazon S3 and Cassandra NoSQL database support
- PHP, JavaScript, HTML/CSS, Elgg, Elgg Multisite, Angular JS, Paypal API, Bitcoin, Cassandra, WordPress, REST API

... and more.

### **Latakoo (2010 – 2012)**

*Chief Information Architect*

- Designed and built a platform to quickly transfer high quality video from journalists to TV newsrooms over any consumer internet connection, increasing flexibility and speed of reporting, while at the same time reducing costs.
- Designed and built a secure and performant mobile upload protocol that functioned in low bandwidth situations or areas with restricted and limited internet connections
- Built many aspects of the back end systems, including data storage and transfer infrastructure, and core APIs
- Platform used by customers, including NBC News, to send footage back from places like Syria, the Sochi Olympics, the Houston floods and Air Force One
- PHP, JavaScript, Linux, REST APIs, DevOps

## **Elgg (2008 – 2009)**

*Senior Developer, Technical Lead*

- Designed and built open source white label social networking platform
- Used by the Australian, Dutch and Canadian governments, fortune 500 companies like Hill & Knowlton, organisations like Oxfam, and universities all around the world
- Developed novel data portability formats (which later contributed to the W3C Activity Streams format)
- Developed and maintained relations with some of the web's leading names in silicon valley
- Won InfoWorld award for best social networking platform in 2008
- Was a panel discussion member, and gave presentations at conferences
- PHP, JavaScript, Linux, MySQL, Shibboleth

## **Torex Retail (2006-2007)**

*Developer*

- Point of Sales (POS) software development for flagship LUCAS products
- Main developer for Electronic Fund Transfer (EFT), Chip & Pin and PCI/DSS compliance
- Java, SolveSE, Linux, Windows

## **e-San Ltd (2003 – 2005)**

*Development Manager*

- Start-up producing medical patient self-monitoring solutions for Diabetes, Asthma and COPD
- Senior project developer on e-San commercial and medical trial solutions
- Developed mobile Diabetes project client
- Developed unified server solution, and ran all back-office / DevOps
- Supervised small team of full time staff and contractors
- Made national press when doctors credited software for saving a child's life
- PHP, Java, MySQL, Linux, Apache, Java ME / MIDP, DevOps

## **Oxford Brookes University (2002 – 2003)**

*Researcher – Secure Email Project*

- Designed and developed encrypted email software in Java for JISC funded project
- Wrote papers and reports related to the project
- Java, Linux, OpenPGP

## **Psion Teklogix (2001 – 2002)**

*Support Engineer*

- Developed software to demonstrate functionality of a range of Psion hardware
- Provided third line technical support to clients
- C/C++, Psion SDKs

## **RAL Space Science (1999 – 2000)**

*Development Engineer – ATSR Project*

- Created ATSR project portal to assist project scientists and customers around the world
- Built software tools to assist the project scientists
- Linux, HTML, VMS

## **Education**

### **Oxford Brookes University (2001)**

*BSc (Hons) Computing and Software Engineering*

## **Technologies**

*Elgg, Known, ARIA, WordPress, Symfony, Laravel, Zend, PHP, Python, Java, JavaScript, Node.js, React, React Native, Express, HTML/CSS, GraphQL, C/C++, AWS (EBS, EC2, RDS, Beanstalk, Route53, IAM), Elasticsearch, MongoDB, CouchDB, Cassandra, MySQL, Redis, IPFS, Linux, Git, Vagrant, Docker.*

## **Additional Information**

Organised: *Barcamp Transparency conference, Oxford “Twestival” fundraising event. Co-founded Known Open Collective.*  
Open Source contributions: *Elgg, Known, WordPress, HTTPSEverywhere, Bouncy Castle JCE, and more...*