

Michał Kawalec

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EDUCATION

UNIVERSITY OF EDINBURGH

MPhys MATHEMATICAL PHYSICS

2009 - May 2014

Specializing in exascale computational models of physical processes and machine learning

LINKS

Github:// [mkawalec](#)

LinkedIn:// [b4zzl3](#)

Twitter:// [b4zzl3](#)

SOCIAL

- 2015 Member of Jury at Finals of the Digital Knowledge Olympiad
- 2015 Member of a Panel in a debate on dealing with hate speech in the internet
- 2014 AngularJS mentor on Angular workshops in Warsaw
- 2014 Member of a Panel on Net Neutrality at workshops by the Polish Ministry of Administration and Digitization, representing Warsaw Hackerspace
- 2014 Helped with the technical side of Copy Camp 2014
- 2014 Member of a Panel on Net Neutrality at Internet Governance Workshops formed by ICANN and Polish Ministry of Administration and Digitization
- 2014 Co-creator of Monadic Warsaw
- 2013 Coordinator of Random Hacks of Kindness Global Event in Poznan, Poland
- 2009 Winner of a Barclays Capital programming competition
- 2006 Supporter and lecturer in Almukantarat Astronomical Club

EXPERIENCE

X-TEAM | SENIOR SOFTWARE ENGINEER

Oct 2014 - Present | Remote

- Developed our own isomorphic Flux framework, FluxApp
- Worked on multiple Flux/React projects for Colony American Homes over their whole stack and project lifetime
- Worked at internal AngularJS projects for RIOT Games

10CLOUDS | SENIOR SOFTWARE ENGINEER

2014 | Warsaw, Poland

- Developer at Edyt project, which will be a patent applications processing system for the European Patent Office.
- Build the encryption layer, contacts and data visualisation layers at Tapeke. It used AngularJS, NodeJS, Django and Solr
- Worked at different parts of the stack at LabScholars

POZNAN INTERNATIONAL FAIR | LEAD FULL STACK WEB DEVELOPER

2012 - 2014 | Remote and Poznan, Poland

- Lead creation of B2B web portal streamlining exhibitors' application process. Used a combination of Python (Flask, SQLAlchemy, ...), CoffeeScript and C.
- Maintained ASP.NET MVC stock management software
- Created various internal applications in CoffeeScript

UNIVERSITY OF EDINBURGH | FULL STACK WEB DEVELOPER

2011 - 2012 | Edinburgh, UK

- Built an adaptable JS interface using an old static site as data source
- Designed and implemented a VB.NET & JS web system for Societies' management.
- Created an intrusion detection system and server management tools

RESEARCH

UNIVERSITY OF EDINBURGH | MASTER THESIS

2014

The thesis investigates a novel way of simulating turbulent conditions in shear flow of fluids. I used spectral methods and Covariant Matrix Adaptation to solve the flow equation and find stable points of a state space. The simulation is able to scale to the whole of ARCHER national supercomputing service.

UNIVERSITY OF EDINBURGH PARTICLE PHENOMENOLOGY GROUP |

SUMMER RESEARCH STUDENT

Summer 2011

Greatly extended the YODA Data Analysis Library and created a very agile 2D hashing algorithm. To test the library performance, written a small batch system capable of running particle simulators in parallel on open-access CERN computers. Also created particle analyses for Rivet and took part in a Particle Physics Theory conference at CERN in Geneva presenting my work.

TALKS GIVEN

- 2015 ReactBerlin Let's play with Isomorphic Flux
- 2015 WarsawJS Flux, Isomorphism and functional JavaScript
- 2014 Monadic Warsaw Haskell 101