Matthew Fullerton

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Further information about me and my work including a list of publications from my time in research can be found on LinkedIn. Code contributions can be found on GitHub.

Professional Experience

10/2016-3/2017 Climate-KIC stipend holder for Hawa Dawa UG, Munich

Software Engineer

 Building infrastructure for the collection and model-based visualization of air quality data from a sensor network

4/2016-12/2016 Impact Hub/Eight Billion Lives fellow for Hawa Dawa, Munich

Software consultant and co-founder of the resulting company

1/2015-12/2015 EXIST stipend holder for Smartlane, Munich

Technical Director and co-founder of the resulting company

 Development of a flexible platform for data processing and visualization for the mobility industry

4/2013-present Freelance Software/Web Developer

On the following projects (current projects marked in bold):

- Smartlane UG, Munich
 - Resource Projects (Data Import) (a project for the NRGI)
 - SmartlaneDISPATCH! mobile app
 - Mobility data visualization examples (2015)
- · Open Knowledge Foundation Germany:
 - 2030 Watch a data visualization platform for monitoring progress towards the 2030 Sustainable Development Goals
 - Technical support and development work for offenesdatenportal.de (Niederrhein region) and daten.aachen.de (Aachen) (CKAN-based)
 - Open Data Monitor (open-data-map.de, offenedaten.de) harmonization and analysis of multiple German data catalogs (CKAN and non-CKAN), web crawling and scraping for civic data sources - 2014
 - Government spending visualizations (Berlin, Rheinland-Pfalz) 2014-15
- Open Data Census 2013 improvements to backend and frontend mostly to improve the submission and review process (Open Knowledge, 2013-14)



Motion tracking data capture (University of Munich, Psychology Faculty, 2013-14)

3/2009-6/2014

Chair of Traffic Engineering and Control, Technische Universität München

Research Assistant

- Responsible for partner contribution to an EU FP7 project (SOCIONICAL exploring the interfaces between human behavior and technology that influences that behavior in the realm of traffic and crowd management)
- · Teaching and student thesis supervision

Higher Education

10/2007-7/2009

MSc in Electronics by Research, University of York, UK

Thesis: Development of a System to study Glare Sensitivity in a Driving Simulator

 The research was conducted at Eli Peli's Lab at the Schepens Eye Research Institute, Boston (Harvard Medical School affiliate) during a paid research stay (8/2007-11/2008)

10/2002-7/2007

MEng in Electronics with Media Technology and a Year in Industry, University of York, UK

Thesis: StroMoHab - Environment and Task Creation

 My year in industry was spent carrying out research at Eli Peli's Lab at the Schepens Eye Research Institute, Boston (Harvard Medical School affiliate)

Skills and other activities

Languages

English: native German: fluent French: can get by

Activism and community contributions

- Development of websites for non-profit organisations (e.g. International Campaign for Justice in Bhopal, You Are Here News Magazine (below))
- Co-founder of local volunteer video news magazine show in Cambridge, MA, USA
- Active Member of Speak, People and Planet, University Radio York and York
 Student Television during my time in York
- I act as a maintainer for dataportals.org and the Recline.js data visualization library. I set up and maintain a document OCR service at givemetext.okfnlabs.org.

Computer

- Languages: Python, JavaScript/node.is, Java, C/C++
- Web: HTML(5), CSS(3), Flask, Express, jQuery, React.js, AngularJS, Bootstrap, ElementalUI
- Mobile: Cordova, Android SDK
- DevOps/Sysadmin: Docker, Npm/Grunt, AWS, Bash, Supervisor, Cron
- Data: SQL, mySQL, Postgresql, Accumulo/Hadoop, Kafka
- Office, graphics and video: OpenOffice, MS Office, Markdown, LaTeX, GIMP, Final Cut Pro