Matthew Fullerton

Address: Werner-Friedmann-Bogen 18, 80993 Munich, Germany
Phone: +49-176-5789-6501 (mobile), +49-89-7456-0495 (home)
Email: matthew@smartlane.de

*I've been involved in R&D and software development of various kinds for over 10 years: st[...]
alternative video decompression software for people with visual-impairment, which later l[...]
driving simulation for research on night-driving difficulties. After working more with driv[...]
simulation data I moved into a more general role as a freelance software developer, focusi[...]
mobile development, sensor data capture, data analysis and visualisation.*

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 visu[...]
  quality data from a sensor network

4/2016-12/2016   **Impact Hub 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 vis[...]
  mobility industry including CKAN as a dataset and visualizatic[...]

4/2013-present   **Freelance Software/Web Developer**

*As a freelancer I worked on or have worked on the following p[...]
projects marked in bold):*

- Smartlane UG, Munich
  - **SmartlaneDISPATCH! mobile app**
  - Mobility data visualization examples (2015)
- Open Data Census 2013 - improvements to backend and fror[...]

improve the submission and review process (Open Knowledg

- Open Knowledge Foundation Germany:
  - **2030 Watch - a data visualization platform for monitorir towards the 2030 Sustainable Development Goals**
  - Open Data Monitor (open-data-map.de, offenedaten.de) - h analysis of multiple German data catalogs (CKAN and non crawling and scraping for civic data sources - 2014
  - Spending visualizations (**Berlin**, Rheinland-Pfalz) - 2014
  - Technical support and development work for offenesdatenp (Niederrhein region) and daten.aachen.de (Aachen) (CKAN
- Data capture for motion tracking (University of Munich, Psych 2013-14)

3/2009-6/2014	**Chair of Traffic Engineering and Control, Technische Unive**

Research Assistant/Doctoral Candidate

- Responsible for partner contribution to an EU FP7 project (SC exploring the interfaces between human behavior and techno 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 Simulator*

- The research was conducted at Eli Peli's Lab at the Schepen: Institute, Boston (Harvard Medical School affiliate) during a p: (8/2007-11/2008)

10/2002-7/2007	**MEng in Electronics with Media Technology and a Year in Ir of York, UK**

Thesis: *StroMoHab - Environment and Task Creation*

- My year in industry was spent carrying out research at Eli Pel Schepens Eye Research Institute, Boston (Harvard Medical S

Skills and other activities

Languages	English: native
	German: fluent
	French: can get by

Computer skills (not exhaustive)

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

I have an in-depth knowledge of the CKAN Data Management S

Activism and community contributions

- Development of websites for non-profit organisations (e.g. Int
  for Justice in Bhopal, You Are Here News Magazine (below))
- Co-founder of local volunteer video news magazine in Cambr
- Active Member of Speak, People and Planet, University Radi
  Student Television during my time in York
- I act as a maintainer for dataportals.org and the Recline.js da
  library. I set up and maintain a document OCR service at give

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