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I am a PhD research student in Computer Science with broad freelance and industry experience based at King's College London. I am interested in practical applications of normative systems. I am a very fast learner, open to new technologies and challenging problems.

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## EDUCATION

**King's College London****September 2015 – Present**

*Master / Doctor of Philosophy in Computer Science*

- Having recently started my research degree in Computer Science, my research will focus on Norm Emergence in Smart Cities.

**King's College London****September 2011 – August 2014**

*Bachelor of Science (Hons), Computer Science with Intelligent Systems (AI)*

- I have completed my undergraduate degree with a straight A academic record in all modules with an average mark of 89% — at the top 1% of the class.
- As part of my undergraduate thesis I have designed and implemented an adaptive controller for a robotic worm being developed for medical applications (such as endoscopy), together with the co-authors we have published a paper about the project.
- During my time as an undergraduate student I have been awarded many prizes, chief among which is the prestigious Jelf Medal, awarded by the Principal of the University to the most distinguished undergraduate student in the school.

**Czech Technical University in Prague****September 2010 – August 2011**

*Bachelor of Science, Informatics and Computer Science*

- I have successfully completed a first year of undergraduate degree at CTU, after which I have decided to finish my undergraduate studies abroad.

**Gymnázium Arabska, Prague, Czech Republic****September 2006 – August 2010**

*Grammar School (High School), Mathematics and Computer Science Class*

- I have graduated in Mathematics, Computer Science, Czech Language and English Language with a straight A academic record.
- During my high school studies, I have represented my school at contests such as Mathematical, Physical and Informatics Olympiads and in 2009 I have competed in the Czech national round of The Informatics Olympiad.

## EMPLOYMENT

### Twitter UK Ltd.

August 2014 – September 2015

*Full-stack Software Engineer,*

I worked in both front-end and back-end teams working on the TweetDeck application, Twitter's client for journalists and other professional users. In the front-end team I worked on designing and implementing an integration testing library, which enabled reliable testing environment setup. In back-end team I have worked with, designed, implemented and supported as oncall distributed Twitter APIs in both Scala and Python.

### JMX.CZ s.r.o.

2007 – Present

*(Freelance) Web Developer*

As a freelance web developer, I have designed and implemented a variety of websites and web application based on client's requirements. As an example I have designed and developed in PHP and MySQL a patient management system for Laser Clinic Anel in Prague.

### Twitter UK Ltd.

July 2013 – September 2014

*Software Engineering Intern*

I have been hired by Twitter as its first engineering intern in Europe. I was part of the TweetDeck front-end team, where my project was to investigate and implement improvements to the user experience of the TweetDeck application on touch devices.

### Targetz Ltd.

November 2012 – June 2013

*Web Developer Intern*

During my internship with Targetz, a small startup, I was responsible for designing and implementing statistics and analytics dashboard web apps written in d3.js and other javascript visualisation libraries and backend in PHP and mongodb.

## PUBLICATIONS

- T. Manwell, T. Vitek, T. Ranzani, A. Menciassi, K. Althoefer, H. Liu: Elastic mesh braided worm robot for locomotive endoscopy. In: 2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), pp. 848–851, August 2014

## TECHNICAL SKILLS (Examples of projects)

- **Scala & Java Development**  
Worked with, designed, implemented and supported as oncall distributed Twitter APIs
- **Nodejs & mongodb**  
Implemented several APIs for side-projects in expressjs & koajs frameworks
- **Javascript, HTML & CSS**  
Worked on front-end of the TweetDeck app, implented visual designs for many websites
- **Android Development [Java]**  
Developed and published two apps in Google Play Store with more than 20.000 installs
- **iOS Development [Swift]**  
Created two iOS apps with Apple Watch apps
- **Web Development [PHP & MySQL]**  
Developed a hotel reservation system for hotel Spaleny mlyn (<http://spalenymln.cz>)
- **Python**  
Mantained and supported as oncall engineer TweetDeck API written in Python
- **C# Development**  
Developed a *GUI* application of a configurable game of life, with its simulation
- **C Development**  
Designed and developed an algorithm for robot control (line following, garbage collection)
- **Git Versioning System**
- **LaTeX Typesetting System**