

# Marijonas Petrauskas

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## WORK EXPERIENCE

### Microsoft

- Summer 2014  
Redmond, WA
- Software Engineering Intern in Windows Kernel Core Team
- Optimized the Windows boot process on ARM-based devices;
  - Implemented drivers and kernel modifications for running UEFI boot applications on NT.

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### Mappingbook Ltd

- February 2014  
– May 2014  
Edinburgh,  
United Kingdom
- Application Developer (part-time)
- Developed geospatial web applications for European Commission;
  - Maintained a virtualized Linux web server setup.
- > PYTHON DJANGO JAVASCRIPT GRAPHVIZ MAPSERVER POSTGIS LXC

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### ZOOMBOOK

- Summer 2013  
Vilnius, Lithuania
- Software Engineer
- Worked with a team to develop [zoombook.com](http://zoombook.com), an online self-publishing platform;
  - Implemented the photo book rasterization and PDF generation subsystem;
  - Designed and deployed an Arduino-based real-time shop floor data collection system.
- > PYTHON DJANGO WEB CAIRO GRAPHICS POSTGRESQL

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### Google

- Summer 2012  
Dublin, Ireland
- Site Reliability Engineering Intern
- Added code coverage support to a functional programming language interpreter;
  - Designed and implemented a distributed web service for automated code coverage analysis.
- > PYTHON C++ CLIENT-SERVER ARCHITECTURE LEX & YACC

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### BALTO print

- March 2009  
– May 2012  
Vilnius, Lithuania
- System Administrator and Web Developer (part-time)
- Developed a project management and product quoting system for a printing house;
  - Supervised Linux and Windows servers and network infrastructure.
- > DJANGO SMARTCLIENT JAVASCRIPT MIKROTIK

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### Lithuanian Olympiad in Informatics

- August 2011  
– present
- Member of the Jury and the Task Preparation Committee
- Creating and preparing tasks for the national olympiad;
  - Helping to organize the annual on-site final round.

## EDUCATION AND TRAINING

### **Computer Science and Electronics (Bachelor of Engineering with Honours)**

University of Edinburgh, United Kingdom

September 2011  
– June 2015

- Principles of computation and logic; algorithms and data structures;
  - Programming paradigms & Haskell; distributed data processing with Hadoop;
  - Operating system architecture; network protocol stack; computer security;
  - Computer architecture; digital system design and implementation on FPGA using Verilog;
  - Analog circuit design and analysis; signal and communication systems.
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### **National Student Academy – Diploma with Honours**

October 2007  
– July 2011

Version control systems, software engineering methodologies, design patterns, genetic algorithms, machine translation and lexical analysis, cryptography, theory of computation, robot programming with NXT platform.

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### **School of Preparation for Olympiads in Informatics**

October 2005  
– June 2011

Algorithms & data structures, problem-solving techniques, practice of C++.

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## ACHIEVEMENTS

- 1<sup>st</sup> place in the final round of CodeVita 2015, an international student programming contest (Mumbai, India)
- Member of the university ACM NWERC 2014 team (Linköping, Sweden)
- Finalist in Challenge24 2014, the 24-hour coding competition (Budapest, Hungary)
- 2<sup>nd</sup> place in JP Morgan Code for Good 2013 (London, United Kingdom)
- Best digital skills project in European Union e-Skills Week Competition 2012 (Copenhagen, Denmark)
- International Olympiad in Informatics – silver medals in 2010 (Canada) and 2011 (Thailand)
- Baltic Olympiad in Informatics – bronze medal in 2009, silver medals in 2010 and 2011

Last updated on 18/04/2015