

# Andrei Hodorog

FULL-STACK DEVELOPER · UI / UX ENTHUSIAST · SECURITY ENTHUSIAST · CIVIL ENGINEERING & BIM RESEARCHER

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“Be the change that you want to see in the world.”

## Education

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### Cardiff University

Cardiff, United Kingdom

BSC. COMPUTER SCIENCE WITH SECURITY AND FORENSICS (FIRST CLASS HONOURS DEGREE ACHIEVED)

Sep. 2010 - Jul. 2017

- Python, Web Applications, Developing Quality Software, Professional Skills, Java, Architecture and Operating Systems, Human Computer Interaction, Networking, Database Systems, Algorithms and Data Structures, Advanced Programming, Security, Forensics, Knowledge Management, Large scale databases, Emerging Technologies
- Final year project: Crowdfunding platform for civic projects - involving full frontend stack and REST APIs with Java (Spring MVC) for the backend

## Experience

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### Cardiff University

Cardiff, United Kingdom

RESEARCH ASSISTANT

Jul. 2017 - PRESENT

- Implemented RESTful APIs and User Interfaces for Computational Urban Sustainability Platform ( [www.cusplatform.com](http://www.cusplatform.com) ) and Energy-BIM ( [www.energy-bim.com](http://www.energy-bim.com) )
- Built and deployed overall service infrastructure utilising Docker containers and live data centres, focusing on high-availability, fault tolerance, and auto-scaling.
- Teaching assistant: Big Data & AI in Civil Engineering

### CreditSafe Business Solutions ([www.creditsafe.com](http://www.creditsafe.com))

Cardiff, United Kingdom

FULL STACK DEVELOPER

Feb. 2017 - Jun. 2017

- adapted the SalesJoe lead generator ([www.salesjoe.com](http://www.salesjoe.com)) for mobile devices
- increased the test coverage to 80% for unit tests in Jasmine
- increased the accuracy of lead ownerships through a logging feature for prospect clients status changes
- technologies used: VueJS, Node, Elasticsearch, CassandraDB

### InspireTec ([www.inspiretec.com](http://www.inspiretec.com))

Cardiff, United Kingdom

FRONTEND DEVELOPER

Aug. 2015 - Sep. 2016

- Involved in developing the frontend for various international projects for the travel industry, including the main product (Holistic), [Travel.co.uk](http://Travel.co.uk), CAA South Ontario, ScotiaBank.
- Implemented from scratch the frontend for the CAASCO Travel flights, hotels and packages search and booking systems ([www.caasco.com/Travel.aspx](http://www.caasco.com/Travel.aspx)).
- Implemented branding configurability (white labelling features) to add resale capabilities for the platform
- Used full frontend stack (Jade, Handlebars, Less, Sass, JavaScript, Gulp)

### Cardiff University

Cardiff, United Kingdom

RESEARCH ASSISTANT INTERNSHIP

Jul. 2014 - Sep. 2014

- Used various APIs to collect information about the users, used data mining and data warehousing techniques in PHP, MySQL and Python
- used database optimisation and parsing techniques
- determined the age and gender of the users using intelligent tag cloud word analysis and LIWC (Linguistic Inquiry and Word Count)
- produced 2 research papers: <http://dx.doi.org/10.1016/j.comcom.2015.07.018> and <http://dx.doi.org/10.1016/j.osnem.2017.08.001>

### XPress Reflect Ltd ([www.xpreflect.co.uk](http://www.xpreflect.co.uk))

Cardiff, United Kingdom

FOUNDER AND WEB DEVELOPER

2008 - Present

- designing and developing bespoke web projects for medium sized businesses in the UK
- bringing several websites into the first page of Google for local searches
- offering general WordPress consultancy, with a focus on security and reliability
- managing a dedicated server

## Honors & Awards

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2012	<b>First score</b> , The CISCO Networking Academy "NetRiders 2012 – Student Challenge", contest	Online
2012	<b>Third Prize</b> , The "Infoeducation 2012" contest, international stage	Galaciu, RO
2013	<b>Nomination for The Award for Best Academic Performance</b> , Romanian Students League Abroad Contest	London, UK
2019	<b>Best Paper Award</b> , Douglas Award contest by South Wales Institute of Engineers Educational Trust	Cardiff, UK
2014	<b>The Cardiff Award</b> , Cardiff University Students Union volunteering and academic performance	Cardiff, UK

## Program Committees

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2020	<b>Organising Committee and session chair</b> , 2020 edition of the ICE/IEEE ITMC International Conference on Engineering, Technology and Innovation	Cardiff, UK
2018	<b>Organising Committee and session chair</b> , 19th IFIP / SOCOLNET Working Conference on Virtual Enterprises, PRO-VE	Cardiff, UK
2011	<b>School representative</b> , COMENIUS EU-funded project (TOURIST_TIC)	Nicosia, CY
2010	<b>School representative</b> , Leonardo Da Vinci EU-funded project (LLP-LdV/IVT/09/RO/101)	Karlsruhe, DE

## Conference papers presented

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### ICE/IEEE ITMC - International Conference on Engineering, Technology and Innovation

*Sophia-Antipolis, France*

PRESENTER AT <ICE-IEEE ITMC 2019: SOCIAL MEDIA MINING FOR BIM SKILLS AND ROLES FOR ENERGY EFFICIENCY>

*Jun. 2019*

- In this paper, we explore the dynamic nature of BIM with associated skills and roles and demonstrate how engagement and training can be informed by social media analysis to identify roles, skills and training needs. We conduct a data mining process by analysing the Twitter data of various companies and institutions involved in the BIM construction sector to discover new skills and roles for energy efficiency
- Research paper link: <http://dx.doi.org/10.1109/ICE.2019.8792571>

### DefCamp - International Information Security Conference

*Bucharest, Romania*

PRESENTER AT <DEFCAMP 2014: SSH TUNNELING - A GATE TO FREEDOM AND A THREAT>

*Nov. 2014*

- real-world example of my University, the techniques for selecting the traffic that needs to be tunneled, issues related to detecting tunneled traffic, separating legitimate from illegitimate traffic and partial mitigation techniques in the corporate environment

## Extracurricular Activity & Volunteering

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### Psychology and Philosophy courses at Cardiff University

*Cardiff, United Kingdom*

CONTINUING PROFESSIONAL EDUCATION

*Jan. 2020 - PRESENT*

- Developmental Psychology (Eriksson psycho-social developmental stages, Piaget stages, Freud psycho-sexual developmental stages)
- Philosophy of Religion (teleological argument, ontological argument, design argument, religious experience argument)

### Cardiff University Sexual Health Awareness Group

*Cardiff, United Kingdom*

HIV ADVOCATE AND DOTCOM OFFICER

*Jan. 2014 - Jun. 2014*

- Designing and distributing HIV awareness and prevention materials
- Holding HIV prevention talks
- designing and maintaining the website: [www.cushag.com](http://www.cushag.com)

### Radio Iasi Romania ([www.radioiasi.ro](http://www.radioiasi.ro))

*Online & FM Airwaves*

RADIO SHOW PRESENTER

*Nov. 2011 - PRESENT*

- presenting a weekly IT-related news radio show and giving IT advice to the population, helping to develop an industry awareness

## Certifications

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### IT

2012	<b>Databases Professional Qualification</b> , Oracle Database Administrator	Oracle Academy
2012	<b>CCNA Computers Networking Certification</b> , Cisco Certified Network Associate	Cisco Networking Academy

### OTHERS

2017	<b>Health &amp; Safety Certificate</b> , Emergency First Aid at Work	CITB
2013	<b>Completion Certificate</b> , STEPS Towards Excellence Personal Development Programme	The Pacific Institute
2013	<b>C2 (Native level) English Language Certificate</b> , IELTS - International English Language Testing System	The British Council

## Skills

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<b>Programming</b>	Node.JS, Python, Java, LaTeX, Docker
<b>Web</b>	Express, VueJS, Javascript, HTML5, LESS, SASS, Webpack, Gulp, Jade, Handlebars, SEO, social media marketing
<b>Languages</b>	English, French, Spanish, Romanian
<b>General IT</b>	design and configuration of medium-sized computer networks; essential knowledge and experience with information security, forensics and cryptography, Linux operating system command line interface, remote support skills
<b>Professional</b>	leadership and brainstorming sessions coordination proven through the web development group I founded and various team projects I was involved as part of my course, tact, patience, avoiding and settling conflicts, presentation skills (lectures, seminars)