

GEORGE PÎRLEA

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RESEARCH INTERESTS

Formal verification, distributed systems, cryptography, anonymity and privacy, blockchains

EDUCATION

University College London Sep 2015 - Jun 2019
MEng Computer Science London, UK

- Imperative, functional and object-oriented programming paradigms (C, Haskell, Java)
- Formal logic, discrete mathematics, CS theory, research methods, networked systems
- Degree classification (current): *First-Class Honours* (81 out of 100)

Tudor Vianu National High School of Computer Science Sep 2011 - Jun 2015
High School Bucharest, RO

- Romanian Baccalaureate: 9.81 out of 10

RESEARCH EXPERIENCE

UCL Computer Science Jul-Sep 2017
Research intern London, UK

- Formalised and verified a blockchain consensus protocol in Coq
- Joint paper with supervisor Dr Ilya Sergey accepted at CPP 2018

Atos IT Challenge Oct 2016 - Mar 2017
Team leader London, UK

- Developed a proof of concept Ethereum Dapp for verifying professional credentials
- Carried out extensive research on blockchain technologies and applications

OTHER EXPERIENCE

Guy's and St Thomas' NHS Foundation Trust Jan - Apr 2016
Back-end developer – industry exchange London, UK

- Improved doctor-patient communication in Ruby on Rails oncology web app
- Carried out live product demos for client and clinical team, with final acceptance testing

Software Talent Academy Romania Feb - Mar 2014
Scrum Master & Back-end developer Bucharest, RO

- Managed a team of five with help of a mentor from 1&1 Romania over a period of 6 weeks
- Developed a personal expense manager in Python, HTML5 and AngularJS

PUBLICATIONS

1. George Pîrlea and Ilya Sergey. [Mechanising Blockchain Consensus](#). In *7th ACM SIGPLAN International Conference on Certified Programs and Proofs (CPP 2018)*. Los Angeles, CA, USA, January 2018. ACM.

SELECTED SOFTWARE PROJECTS

Toychain Minimalistic blockchain consensus implemented and verified in Coq
BitKariero Decentralised record of professional credentials built on Ethereum and IPFS

TALKS AND PRESENTATIONS

1. [Mechanising Blockchain Consensus](#) at CPP 2018 *Jan 2018 – Los Angeles, USA*
2. [PSYNC](#) (work by Drăgoi *et al.*) at UCL PPLV reading group *Jul 2017 – London, UK*
3. [Electronic voting – perhaps not a good idea?](#) at Coliberator 2015 *Jun 2015 – Bucharest, RO*

ACADEMIC EVENTS ATTENDED

CPP 2018	7th ACM SIGPLAN International Conference on Certified Programs and Proofs
POPL 2018	45th ACM SIGPLAN Symposium on Principles of Programming Languages
CoqPL 2018	Fourth International Workshop on Coq for Programming Languages
FMATS 5	Fifth Workshop on Formal Methods and Tools for Security
ICFP 2017	22nd ACM SIGPLAN International Conference on Functional Programming
S-REPLS 6	6th South of England Regional Programming Language Seminar

AWARDS AND SCHOLARSHIPS

1. ACM POPL 2018 professional activities grant
2. ICFP 2017 PLMW scholarship

TECHNICAL SKILLS

C, Python	Comfortable with the language, few years experience
Scala, Haskell	Intermediate, can handle complex tasks with help of documentation
Coq	Practical experience on non-trivial project
Linux	Experienced, managed my own mail and file sync servers for 6 years