

Profir-Petru Pârțachi

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Education	PhD in Computer Science	September 2016 – December 2020
	<i>Centre for Research on Evolution, Search and Testing</i>	<i>University College London, Gower Street, London WC1E 6BT</i>
	PhD Thesis: 'Improving Software Project Health Using Machine Learning' Supervised by <i>Prof. Earl T. Barr (e.barr@ucl.ac.uk)</i>	
	Computer Science Tripos	September 2013 – July 2016
	<i>King's College, University of Cambridge</i>	<i>Cambridge, United Kingdom</i>
	BA in Computer Science BA Thesis: 'Deck building in Hearthstone Using a Genetic Algorithm.'	
Work Experience	Freelance Researcher/External Consultant	April 2021 – now
	<i>National Institute of Informatics</i>	<i>Chișinău, Republic of Moldova</i>
	Research into the naturalness properties of structured representations of source-code. Consulting for Assoc. Prof. Mahito Sugiyama	
	Research Internship	October 2018 – April 2019
	<i>National Institute of Informatics</i>	<i>National Institute of Informatics, Tokyo</i>
	Worked on the efficient processing of spatiotemporal data for anomaly detection using Graph Kernels. Supervised by Assoc. Prof. Mahito Sugiyama	
	Hardware/Software Engineer Intern	June 2016 – September 2016
	<i>University of Cambridge</i>	<i>Computer Laboratory, University of Cambridge, Cambridge</i>
	Worked within the lowRISC team to provide: <ul style="list-style-type: none">• Hardware implementations of DCT, IDCT and colour space conversions for MPEG2 as AXI-stream accelerators.• Hardware logic to interface AXI-stream accelerators with the lowRISC CPU chip.	
	Software Developer Intern	June 2015 – October 2015
	<i>Amazon Instant Video</i>	<i>London</i>
	Worked on providing an auditing infrastructure by: <ul style="list-style-type: none">• Writing a plug-in to wrap calls to backend systems to log calls and responses.• Storing intercepted calls and pre-processing stored data in Amazon Redshift for auditing reports.	
Publications	[1] Pârțachi, P.-P., Dash, S. K., Allamanis, M., & Barr, E. T., Flexeme: Untangling Commits Using Lexical Flows . In <i>28th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, (ESEC/FSE 2020)</i> . Sacramento, California, United States; ACM, November, 2020; https://partachi.com/Flexeme	
	[2] Pârțachi, P.-P., Treude, C., Dash, S. K., & Barr, E. T., POSIT: Simultaneously Tagging Natural and Programming Languages . In <i>42nd International Conference on Software Engineering (ICSE '20)</i> . Seoul, Republic of Korea; ACM., July 2020; https://partachi.com/POSIT	
Teaching Experience	COMPM203 Verification and Validation <i>Teaching Assistant</i> Leading problem based workshops, assisting exam setting, and exam marking	January 2020 – July 2020 <i>University College London</i>

COMP103P Applied Software Development <i>Teaching Assistant</i> Laboratory Supervisor and Group Project Supervisor	January 2018 – April 2018 <i>University College London</i>
COMPM203 Verification and Validation <i>Teaching Assistant</i> Coursework writing and marking	January 2018 – April 2018 <i>University College London</i>
COMP213P Systems Engineering <i>Teaching Assistant</i> Group Project Supervisor	October 2017 – April 2018 <i>University College London</i>

Awards	Cambridge Commonwealth Trust 2013-2014 <i>For the purpose of BA Computer Science Tripos at King's College, Cambridge</i> HMC Reduced Fee Scheme 2012 <i>For the purpose of attending Seaford College for UK A-levels</i>
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Reviews	Conferences <ul style="list-style-type: none"> – Program Committee member for the Research Track at SANER 2022 – Sub-reviewing for ISSTA 2021 – Program Committee member for the Mining Challenge at MSR 2021 – Sub-reviewing for SANER 2021 – Sub-reviewing for ICSE 2021 – Sub-reviewing Registered Studies for ICSME 2020 – Sub-reviewing for ASE 2020 – Sub-reviewing for MSR 2020 – Sub-reviewing for FSE 2019 – Sub-reviewing for ISSTA 2019 – Sub-reviewing for ASE 2018 – Sub-reviewing for ECOOP 2018 – Sub-reviewing for ISSTA 2018 – Sub-reviewing for MSR 2017 Journals <ul style="list-style-type: none"> – Reviewing for TOSEM 2022 – Reviewing for JSS 2022 – Reviewing for JSS 2021 – Reviewing for EMSE 2021 – Reviewing for MTAP 2020 – Sub-reviewing for EAAI 2020 – Sub-reviewing for TSE 2017
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Technology Skills	Programming Languages: Python, Java, Haskell, SystemVerilog. Theorem Proof Assistants: Coq.
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Language Skills	Native: Romanian. Fluent: English, Russian. Intermediate: Czech, German. Beginner: Japanese.
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