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| **Alin Popa** | **+40 745 76 05 64**  **alin1popa@gmail.com**  **www.alinpopa.eu** |

**PROFESSIONAL EXPERIENCE**

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| **Software Developer & Configuration Manager**  **Softwire Romania**  **Jul. 2017 – present** | **Projects:**  Designed and implemented a software pipeline for automated video annotation using speech recognition  Built various functionalities for several web apps, both on frontend and on backend. On the most popular web app, my work impacted an estimated 50.000 users  Developed a portable video player library for Roku smart-TV system, implemented Adobe analytics for Android and HTML5 video players  Applied extreme programming and agile methodologies, used test driven development approach, was in charge of development, QA, code review; team sizes ranging from 2 up to 12 people  Managed the relationship with several departments and clients on behalf of Softwire Romania as part of the CM responsibilities  **Tech skills:**  TypeScript, Node.js, Neo4j Cypher, git, SCSS, LESS, SASS, BrightScript, SceneGraph, React, React Redux, Javascript, Knockout.js, webpack, Python, CMUSphinx, Java, Adobe Heartbeat, C#, Python, PHP, AWS ecosystem  **Other skills:**  Scrum/Agile, extreme programming, unit testing, test driven development, business management |
| **Teaching Assistant**  **UPB - ACS**  **Oct. 2017 – present** | **Courses:**  Logical Engineering (lab) – Conf. Costin Chiru  Computer programming (lab) – S. I. Vlad Posea, S. I. Traian Rebedea  Algorithm analysis (seminar) – S. L. Matei Popovici  Programming paradigms (seminar) – S. L. Matei Popovici |
| **Freelance Programmer**  **Elance.com / Upwork.com**  **2015 – 2017** | **Projects (non-exhaustive):**  Built assembly code and FPGA circuitry simulators in C with CUI and OpenGL GUI with interfaces to video and audio drivers, serial and parallel ports, timers and counters, stack and function calls, step debugging  Designed, developed and extended various websites and web plugins in PHP and ASP.NET - involving web data scrapping, usage of Google Translate and Google Adwords APIs, SQL database backends  Developed VBA scripts for Microsoft Office and C# applications using Microsoft Interop Libraries for both Office and Internet Explorer with the purpose of task automation and optimization  **Tech skills:**  C/C++, C#, OpenGL, HTML, Javascript, CSS, jQuery, Google Adwords API, Google Translate API, Google Maps API, assembly language, operating systems, automated testing, VBA, PHP, ASP.NET, Prolog, Microsoft Interop Libraries  **Other skills:**  Rapid prototyping, estimating project execution time, communication with clients in non-technic language, price negotiation |

**RESEARCH**

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| **17th RoEduNet Conference: Networking in Education and Research**  **Sep. 2018** | **Paper:**  AB Popa, IM Stan, R Rughinis – Instant payment and latent transactions on the Ethereum Blockchain  https://ieeexplore.ieee.org/abstract/document/8514139  Designed and built an innovative way of implementing latent transaction and credit, on top of the Ethereum Blockchain (Solidity 0.5.0)  **Skills:**  Ethereum development, ERC20 standard, Solidity, Python, Flask, SQLite, SQLAlchemy, Conda, ECDSA |

**COMPETITIONS AND PROJECTS**

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| **BEST Engineering Marathon**  **Apr. 2018** | **Project:**  Developed a web app that employs several location-related APIs to present information for tourists  **Awards:**  Accenture – third prize  **Skills:**  Javascript, CSS, Google Maps API, weather forecast APIs, currency conversion forecast APIs, Google Places API |
| **BRD FIRST Tech Challenge**  **2017-2018 season** | **Volunteering:**  Participated as Field Inspector & Referee at FIRST international robotics contest for young children |
| **Innovation Labs 2017**  **Feb. 2017 – Jul. 2017** | **Project:**  Participated in the ILabs2018 startup pre-accelerator program with SMity, a management and monitoring platform for smart cities. As part of the program, I worked not only on development, but also on customer research, marketing strategies, team communication and management, fund raising techniques, business plan building  **Awards:**  Innovation Labs – participation to Inovation Labs 2017 final round  Orange Romania – Imagine with Orange prize for smart territories category  Microsoft – participation to Imagine Cup Romania final round  **Skills:**  Node.js, CSS, Elastic Search, business development |
| **Linux Embedded Challenge**  **NXP Semiconductors Romania**  **Apr. 2017 – Jun. 2017** | **Project:**  Developed an intelligent adaptive headlights system implemented on a UDOO Neo board  **Awards:**  LEC 2017 – third prize in the LEC 2017 final round  **Skills:**  C, Python, image processing, OpenCV, low level programming |
| **HackTGM**  **Sapientia University**  **Apr. 2017** | **Project:**  Developed a platformer arcade video game that uses machine learning to generate harder levels depending on user’s facial emotions  **Awards:**  HackTGM - First prize for best game  **Skills:**  Unity, game design, game development, Microsoft Emotion Detector API |

**EDUCATION**

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| **2018 – 2020** | Master’s degree in Financial Computing  University POLITEHNICA of Bucharest **–** The Faculty of Automatic Control and Computer Science |
| **2018 – 2020** | Psycho-pedagogical module, Level II  University POLITEHNICA of Bucharest – The Faculty of Automatic Control and Computer Science |
| **2014 – 2018** | Bachelor’s degree in Computer Science – Application Systems and Artificial Intelligence  University POLITEHNICA of Bucharest – The Faculty of Automatic Control and Computer Science |
| **2014 – 2017** | Psycho-pedagogical module, Level I  University POLITEHNICA of Bucharest – The Faculty of Automatic Control and Computer Science |
| **2010 – 2014** | „Mihai Viteazul” National College, Bucharest – informatics class |

**OTHER AWARDS**

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| **2013** | Silver Medal and Mention in the National Physics Olympiad, DRM Draxlmaier Romania's prize for the best experimental work and Bucharest City Council's Diploma of Excellence |
| **2011** | First Prize in National Informatics Contest "Urmasii lui Moisil" and Bucharest City Council's Diploma of Excellence |
| **2011** | First Prize in National Informatics Contest "Tudor Sorin" |
| **2010** | Mention in Associated I.M.A.C (International Mathematical "ARHIMEDE" Contest), 4th Edition |
| **2009** | Special Mention in the National Chemistry Contest "Raluca Ripan" |
| **2007** | Silver Medal and Mention in the National Mathematics Olympiad and "Mihai Botez" Special Prize |
| **2006** | Mention in National EuroJunior Program |