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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**  **Jul. 2017 – present**  **Softwire Romania** | **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*  **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#*  **Other skills:**  *Scrum/Agile, extreme programming, unit testing, test driven development* |
| **Teaching Assistant**  **Oct. 2017 – present**  **UPB - ACS** | **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**  **2015 – 2017**  **Elance.com / Upwork.com** | **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* |

**AWARDS 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 – present** | *Pursuing Master’s degree in Financial Computing*  *University POLITEHNICA of Bucharest* **–** *The Faculty of Automatic Control and Computer Science* |
| **2018 – present** | *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* |