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

**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*  **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#, 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):**  **Language switcher** – *script for automatically switching website language based on client’s IP address origin*  **Web scrapping e-commerce website** – *Online shopping website for books scrapped form Chinese retailers – contains shopping cart, backpanel, sales etc.*  **Google Adwords tool** –*script for interpolating results from free tools in order to programmatically compute number of monthly Google searches for specific keywords*  **Virtual machine** – *simulator for assembly / machine code. Implements: addressing modes, extended instruction set, OpenGL display, audio system, serial and parallel ports communication, timers and counters, stack, function calls*  **Virtual circuit** – *block-based circuitry simulator, with GUI block editor, optimized simulation, real-time visualization*  **ASP.NET validation** – *ASP.NET pages with controls populated from databases, forms, data validation and processing*  **Excel calculations** – *software for extracting data from open XLSX file that changes in real time, perform calculations and write data back faster than Excel could have done that*  **Google Maps for taxi route computing** – *software for computing best routes for taxi cars considering clients desired departure and arrival hours and combining clients in same car, using Google Maps API*  **Sports Venue Planner** – *Prolog program for programming basketball games with constraints regarding free sports venues, teams, week schedule etc.*  **Acquired skills:**  **Planning –** *rapid prototyping, feasibility study, estimating project execution time*  **Technologies –** *C/C++, C#, OpenGL, HTML, Javascript, CSS, jQuery, Google Adwords, assembly, operating systems, automated testing, VBA, PHP, ASP.NET, Prolog*  **Soft skills –** *communication with clients, negotiation, explaining technicalities in non-technic language* |

**OTHER PROJECTS / CONTESTS**

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| **Innovation Labs 2017**  **Feb. 2017 – Jul. 2017** | **Projects:**  **SMity –** *management and monitoring platform for smart cities. Used for displaying data acquired from IoT sensors in a user-friendly way by generating relevant graphs and offering insights useful for both the administrators of a smart city and the regular citizens. Uses the IoT infrastructure built by Orange Romania in Alba Iulia, Romania as prototype.*  **Awards:**  **Innovation Labs –** *Innovation Labs 2017 finals participation*  **Orange Romania –** *Imagine with Orange prize for smart territories category*  **Microsoft –** *participation to Imagine Cup Romania finals*  **Acquired skills:**  **Communication & Leadership –** *communication, team management, agile development*  **Business –** *relationship with investors, marketing, creating a business plan, building and following a Business Canvas Model*  **Technologies –** *Node, CSS, Elastic Search, git* |
| **Linux Embedded Challenge 2017**  **Apr. 2017 – Jun. 2017**  **NXP Semiconductors Romania** | **Projects:**  **TripleA –** *intelligent adaptive headlights system implemented on a UDOO Neo board*  **Awards:**  **LEC 2017 –** *third prize in the LEC 2017 final*  **Acquired skills:**  **Technologies** –*C, Python, image processing, low level programming* |

**EDUCATION**

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| **2014 – present** | **University POLITEHNICA of Bucharest –** *The Faculty of Automatic Control and Computer Science*  *Bachelor’s degree in Computer Science – Application Systems and Artificial Intelligence* |
| **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** |