# Alin Popa

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#### **PROFESSIONAL EXPERIENCE**

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**

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**

**BEST Engineering Marathon** 

# Project:

Apr. 2018

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	Project:  Developed an intelligent adaptive headlights system implemented on a UDOO Neo board
Apr. 2017 – Jun. 2017	Awards:  LEC 2017 – third prize in the LEC 2017 final round  Skills:
	C, Python, image processing, OpenCV, low level programming
HackTGM Sapientia University	<b>Project:</b> Developed a platformer arcade video game that uses machine learning to generate harder levels depending on user's facial emotions
Apr. 2017	Awards:  HackTGM - First prize for best game  Skills:  Unity, game design, game development, Microsoft Emotion Detector API
EDUCATION	
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	
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