

Robert Purtuc

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Work experience

 2/2020 – 02/2021  TIMISOARA, ROMANIA


Junior Software Engineer **3PillarGlobal**


- Implementing new small unit testing scenarios using pyATS
- Fixing bugs and doing enhancements to the existing code
- Creating new Groovy based Jenkins pipelines for automation testing
- Creating new setups for Jenkins pipelines
- Manual CISCO devices configuration
- Baselines for CISCO Devices
- Building Testbeds for automation
- Mastering the Perforce Helix versioning system.

 02/2021 – 05/2022  TIMISOARA, ROMANIA

Middle Software Engineer **3PillarGlobal**

- Being part of Community of Practice as a Facilitator focused on internal product trainings
- Creating new complex tests from scratch
- Integrating the complete tests in the existing test suites and preparing the execution plan.
- Discussing the requirements with the stakeholder
- Being a Mentor for 14 weeks as part of an internal program that is focused on training university students on following subjects: Python, Scripting, Linux
- Implementing an API from scratch
- Implementing new complex features into the existing framework and adding support for a new Cloud platform into the framework
- Integrating a Cloud platform into the existing testing scenarios and building the automation pipelines
- Holding presentations for multiple teams on the newly added features of the framework.

 05/2022 – PRESENT

 CLUJ NAPOCA, ROMANIA

Software Engineer **Pentalog**

- Developed test driven web backend components using Django as framework for skillvalue.com

Work experience

- Improved the application and data security and protection by working closely with the SecOps on security related issues and managed to reach the ASVS L1 security standard.
- Maintained the existing code base

Education

 09/2012 – 07/2016  HUNEDOARA, ROMANIA

Informatics **The National Collage of Informatics** **"Traian Lalescu"**

 10/2016 – 08/2020  TIMISOARA, ROMANIA

Computer Science | Licence Degree **Politehnica University Of Timisoara**

 09/2020 – PRESENT  TIMISOARA, ROMANIA

Cloud Computing and Internet of Things | Masters Degree **Politehnica University of Timisoara**

Skills

INDUSTRY KNOWLEDGE

Object Oriented Design
Software Development
Data Structures
Algorithms
Test Automation
Microcontrollers
Artificial Intelligence
Agile Working

Skills


TOOLS & TECHNOLOGIES

Python
Django
MongoDB
SQL
Jenkins
Docker
VueJS
Flask
C
Java
Selenium
Cisco Firepower
PyTest
Android Development
Groovy
Terraform

SOFT SKILLS


Analytical Thinking
Problem Solving
Adaptability
Agile Working
Team Work

Awards

 01/2020

Scientific Communication Session UPT: 2nd Place Utility&Lifestyle Category Politehnica University of Timisoara

The project I participated with in this Scientific Communication Session was part of a bigger project consisting of A.I powered prosthetic arm. Our team developed an application with whom the calibration of sensors/servomotors was possible using only a mobile phone. The application also included a remote control mode from which the arm can be controlled. In addition to that a sensor plotter/monitor was also added.

 05/2019

IDMSC 2019 Best IoT Project Multimedia Center - UPT

<https://idmsc2019.cm.upt.ro/castigator>

The award was given to our team based on our project "Humans+" which is our AI Powered Robotic Arm.

Projects

Humans+

The purpose of this project was creating a low budget, 3D Printed, prosthetic hand which is controlled by 2 EMG sensors placed on the

Projects

forearm. The sensors are reading electrical impulses from the muscles and transform them to a signal which is send to the microcontroller. The microcontroller is encapsulating the data and is sending it to the Raspberry Pi 3 using the serial interface. The Raspberry Pi 3 is holding an Recurrent Artificial Neural Network, implemented in Keras, that is using an LSTM architecture. The neural network is being used to decide which movement was done by the human forearm muscle, the inputs being the sensor reading and the outputs the finger to be moved. The accuracy of the Neural Network was near 90% in our testing process. The control of the arm's fingers is done with the help of 6 low power servomotors.

CineMY

CineMY is a web application that acts as a ticketing system for cinema's where users can create an account and book tickets at different cinemas. The back-end is written in Django and for the front-end, Bootstrap was used.

The Blog

The blog is a blog, similar with Medium written from scratch. The blog supports addition of different postings on multiple categories as well as rich text editor for the tech savvy bloggers. The back-end is written in Django and the front-end was made using Bootstrap.


Buggy

Buggy represents an open-source, free and lightweight application which could be seen as good alternative to Jira for small teams which need to keep track of issues using tickets. The project is only at the initial phase. The tech stack consists of VueJS + Django + PostgreSQL

Annotator

Annotator is a Python based application used for processing, annotating and extracting texts from PDFs files. The scope of this project is to provide an easy way to annotate PDF files using text files that contains notes from the PDFs. The user can decide multiple options when doing the annotations.

Certificates

 2/2022

M001: MongoDB Basics MongoDB University

https://university.mongodb.com/course_completion/59507c70-9431-4544-bf53-2ddf7a30cdf8?utm_source=linkedin&utm_medium=social&utm_campaign=university_social_sharing