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Cosmin Papadopol (Mr.)

Personal Information

Date of Birth: 18.05.1995
Hobbies: Gadgets, Photography, Hiking.

Education

Doctor's degree:
2020 – Present The Faculty of Electronics, Telecommunications and Information Technology, University "Politehnica" of Bucharest (Romania) – Generation of landscapes with a high rate of memorability via GANs

Master's degree:
2018 – 2020   The Faculty of Electronics, Telecommunications and Information Technology, University "Politehnica" of Bucharest (Romania) – Advanced Techniques for Digital Imaging

Bachelor's degree:
2014 – 2018   The Faculty of Electronics, Telecommunications and Information Technology, University "Politehnica" of Bucharest (Romania) – Applied Electronics (ELA)

Technical Skills

• Python	• TensorFlow	• Machine Learning	• Atlassian's JIRA	• Java	• JavaScript	• SQL
• Groovy	• Git	• Jenkins	• Linux			

Professional Experience

02/2020 – Present – METRO Systems Romania
Atlassian JIRA Tools Developer and Administrator:
• Enhance multiple business processes and user experience on a large scale instance;
• Gained hands-on experience on the plugin development process;
• Earned knowledge and know-how on relevant existing add-ons for JIRA (ex. Script Runner, Elements Connect);
• Improved existing programming language reflexes;
• Acquired fresh basic knowledge on multiple programming languages: Java, Groovy, JavaScript and SQL.

06/2019 – 12/2019 – Renault (Akka Romserv provider)
Atlassian JIRA Tools Engineer:
• Further improved teamwork capabilities;
• Improved previous theoretical experience of Python programming language;
• Earned a new set of skills regarding the Atlassian's JIRA environment (queries, dashboards, managing projects);
• Gained hands-on experience in programming using Python and JIRA module.

06/2018 – 01/2019 – Renault (Altran provider)
Electronic Integration Platform Pilot:
• Improved team-work abilities as it is a key element for the job;
• Gained new knowledge in the automotive field, hardware and software;
• Achieved a good understanding of the car's electronic system;
• Hands-on experience with electric and electronic components, CAN communication protocol and diagnosis tools.

08/2017 – 06/2018 – NoBug Consulting
Junior ASIC Verification Engineer:
• Developed a goal-oriented working strategy and good project time tracking skills;
• Gained the ability to estimate tasks duration in order to accurately schedule them;
• Further improved relevant skills in Linux, System Verilog and UVM.

Relevant Projects

METRO Systems Romania – JIRA Developer&Administrator (02/2020 – Present)

     My main goals are to fulfill tasks that target the improvement of the business process that our JIRA instance is used for. In order to complete these tasks, I am handling multiple existing add-ons such as JMWE, ScriptRunner, Elements Connect and Copy&Sync. Besides this, I am developing custom add-ons that are tailored for the client's need or bring value to our product. I am also responsible with the implementation of automatic testing for the JIRA instance via Selenium and Unit testing framework. To achieve this, I had to learn new programming languages and combine them with my existing programming skills in order to develop new reliable solutions. Along with developing tasks, I am constantly maintaining previously developed features and handling administration tasks. Software tools used: VS Code, IntelliJ IDEA, Postman, pgAdmin, GitLab, Jenkins. Programming languages used: Python, Groovy, Java, JavaScript, SQL.

University Projects

Automatic generation of realistic images via Generative Adversarial Networks (Master Thesis)

     The main goal of the research is generating new artificial and realistic images to augment existing datasets. The proposed application is autonomous vehicles. The source dataset consists of static traffic scenes. The paper describes the process of developing and implementing different architectures for Generators and Discriminators, that used together will result in a GAN pipeline. The thesis also includes a comparison by the fidelity of reproducing the distribution of content found in a traffic scene. Frechet Inception Distance and Inception Score are used as metrics to quantify the output of the network. The implementation is based on Python as programming language, along with libraries such as TensorFlow.

Landmark recognition on a mobile device – Java, Python, TensorFlow

     The subject of the project is landmark recognition using an Android application, which has access to the device's camera. The purpose of the application is to return the GPS coordinates of the detected landmark. The base of the application was a Convolutional Neural Network (MobileNet) trained to detect 11 landmarks along Paris, France. The trained network was then frozen into a graph, using TensorFlow and Python. The graph was then loaded in the Java part of the application. Classification accuracy was the base metric for testing the performance of the application.

Analysis of Romanian speech in video sequences – MatLab (Diploma project)

     Developed an algorithm based on deep learning techniques in order to translate video sequences containing speech into text. I used fundamental computer vision tools: image processing and machine learning. The algorithm uses image descriptors (HOG) and neural networks (CNN, LSTM) to classify video sequences containing different speakers pronouncing one word at a time (one word and one speaker per video), into text. The database was created manually with the help of my colleagues. Three systems were proposed using different approaches on the neural network architecture. Classification accuracy and confusion matrix were used as metrics for evaluating the performance of the system.

Professional Objective

• Improve my problem solving, teamwork and organizational skills;
• Looking forward to expanding my knowledge and set of skills with by being an active part of your future projects;
• Ability to independently implement, develop and improve more important projects.

Languages

• Romanian – Mother tongue	• English – Advanced	• French – Beginner

Certificates

• Programming Certificate (ETTI) – 2016	• ECDL – 2014

Courses

• Cisco CCNA 1 – BIT Academy (2019)

Driving License

• AM, B1, B – 18.12.2014