ALEX DORNESCU

Software Development Engineer

DETAILS

ADDRESS
Romania

PHONE
+40749960711

EMAIL
alexandrudornescu1995@gmail.com

DATE OF BIRTH
17-Jul-1995

LINKS

Linkedin

Github

SKILLS

Python

Linux

Docker

HTML & CSS

SQL

Git

JavaScript

PROFILE

I am a Python developer passionate about Web development and Data Science. I always seek to match the best algorithm for the problem to be solved and the best strategy for data visualization.

EMPLOYMENT HISTORY

Software developer, Continental   Iaşi

Feb 2016 — Feb 2018

Developer in a project involving new features for a server

I had to write a new feature for a server in Linux. The program is using the server to trace the input and output signal from many components of a car (for example video cameras).

My task was to implement with C++ code a unique process assign in Linux to trace the signal for each component of a car in different shells.

Tasks:

· Implement new features
· Integrate bash code in C++
· Run parallel shells in different machines
· Testing
· Bug fixing

Technical Skills and Tools: C++, Linux, Bash scripting, Visual Studio, GIT, SVN.

Developer in a project involving a new add-on for a tool

Rhapsody is a tool used by developers for architecture design. My task was to make an add-on to this

program parsing the information from an .xml file, updating the Rhapsody tool.

Tasks:

· Integrate the source code of Rhapsody tool
· Developed an algorithm for parsing data
· Update the Rhapsody interface
· Testing
· Bug fixing

Technical Skills and Tools: Java, XML, algorithm, Eclipse, GIT, SVN.

Developer in a project involving car testing maneuver

This project was to develop an algorithm using Python for a car to come back on the right side of the

road when it changes the direction accidentally on the opposite side. I've used CarMaker tool to

simulate in real time the Python code.

Tasks:

· Create an algorithm based on a math formula
· Integrate the algorithm in code
· Test in CarMaker tool
· Create statistics from CarMaker results

Technical Skills and Tools: Python, XML, algorithm, CarMaker, Visual Studio, GIT.

Python Developer, Endava   Iaşi

Dec 2018 — Jun 2020

Python back-end developer in a project involving new features for a platform

My role is to develop the back-end programming using Jython(an implementation of a legacy version of python 2.5 running on a Java platform).

Together with the team, we have tasks to improve the platform with new features.

Tasks:

· Implement new features
· Refactoring
· Testing
· Bug fixing

Technical Skills and Tools: Python 2, JavaScript, DQL database, Sublime, Jira, SVN.

Developer in a project creating a chatbot

I had to create a chatbot using Rasa NLU library docker for a customer to respond to how is the weather of a specific location. The chatbot was tested on Slack.

Tasks:

· Rasa NLU docker deployment
· Stories and logic creation
· Model update
· Testing

Technical Skills and Tools: Python 3, Docker, PyCharm, Sublime, SVN.

Data Scientist, Wingravity   Iasi

Jun 2020 — Jan 2021

Check more information on https://www.slashscore.ai/

Back End Engineer, Continental
Sibiu

Mar 2021 — Dec 2021

Developer in multiple projects involving IoT and Machine Learning

IoT project:

I had to create the architecture and a notification system for smart watches for factory workers. Basically the workers were notified if a machine was not running properly.

For this I used a flowchart library from javascript running js code and connects the diagrams between server, DB, UI.

Tasks:

- Implement architecture
- Create back-end code
- Create sql procedures for Oracle DB
- Create API request in Azure to connect smart watches
- Connect via js flowchart all things from above
- Testing
- Bug fixing

Technical Skills and Tools: JavaScript, PL/SQL, GIT, SVN.

Machine Learning project:

I had to create a machine learning image classification model to see if a hardware device is damaged. Using SageMaker I had create pipelines to train different models with damaged hardware images.

Tasks:

- Analysis images from S3
- Convert and process images
- Create pipeline and train models
- Create API request for machine that takes real time pictures of hardware devices
- Predict and print results
- Testing
- Bug fixing

Technical Skills and Tools: Python3, Jupyter, Amazon SageMaker, Image processing with matplotlib & seaborn, GIT.

Senior Back End Python Developer, Freelance
Roman

Aug 2021 — Sep 2022

Flask project that involves a medical platform for researchers. I had to implement API integration, improving current platform and existing codebase.

Tasks:

- Implement features such as finance, dashboards, pdf reports etc.
- Implement migrations and queries for SQL DB
- Communicate with the team and researchers the features
- Unit testing
- Code review
- Project management
- Bug and hot fixes
- Testing

Technical Skills and Tools: Python3, Flask, ReactJS, PostgreSQL, docker, AWS, GIT.

Python Developer, DataHeroes

Roman

Nov 2022 — Feb 2023

Project that involves algorithms, machine learning for challenges such as Big Data.

Tasks:

- Data analytics for current algorithms
- Explore different approaches using graphs
- Creating additional functionalities for functions
- Unit testing
- Testing

Technical Skills and Tools: Python3, pandas, numpy, pytest, Jupyter, docker, GIT, CircleCI.

EDUCATION

Software engineer, Faculty of Automatic Control and Computer Engineering (Technical University)

Iasi

Oct 2014 — Jul 2018

COURSES

AI for Trading(Nanodegree Program), Udacity

Sep 2019 — Feb 2020