

ADRIAN COJOCARU

Coding Enthusiast

Contact details

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Professional experience

Global Desktop Architect – PwC (Apr 2021 – Present)

In my current role I am the subject matter expert for the company's global Windows endpoint provisioning solution based on VMware Workspace ONE.

Technologies Used:

PowerShell

- Developed a script that allowed end users to check and remediate the status of the machine/user certificate. The script consists of a UI, based on WinForms, that interacts with an API for obtaining the certificates.
- Developed a "preflight check" script used to confirm that the OS Image being installed by Territories conforms to minimum requirements software requirements: Image version, OS version, and device specs: RAM/Disk, Secure Boot, Kernel DMA, region, etc.
- Developed custom scripts for deployment through Workspace ONE for various tasks: customize specific OS settings, cache files cleanup, check if services are running. Or gather information about devices.

Azure

- Used an Azure Function to move an existing local PIN authentication method to the cloud, addressing a long-standing vulnerability in our scripts.
- I set up an Azure based storage solutions for my team to use as file share (Azure Files) and for storing app configurations (Blob/Containers)
- Built a Hyper-V Server solution for my team to use as a development environment

Azure DevOps, Git

- Developed a pipeline that improved the creation process of the provisioning image by using git for version control and by centralizing the build on a single VM.
- Automated a process where an application would no longer have to be manually built every quarter. Instead, a pipeline runs on a scheduled basis and takes care of most of the building tasks.

C#

- I used the C# project in Visual Studio to create a wrapper for PS scripts in executable format. The PowerShell script would be stored embedded in the executable as a resource.
- Development of new features for various utilities built with .Net

Python

- Added a custom feature, required in our organization, to an Adobe developed tool (User Sync Tool). In our environment users often had two email attributes. We required and update to the User Sync Tool that would also query for a second email attribute. The source code of the script is open source and was written in python, so I took that and rebuilt the app with the update required.

Hardware\Devices

- Worked with Laptop vendors to preload the provisioning image on company purchased Laptops. I received ranges of latest gen laptop models in order to test the provisioning image.

Senior Service Design Consultant – Oracle Romania (Sep 2016 - Apr 2021)

Worked in an Agile team to design, develop and maintain the scripts that were used to provide Oracle Employees with a self-service Automated Windows OS Endpoint Installation.

Technologies used:

VBScript, HTML/CSS

- The Provisioning solution used in the company was a user Self-Service OS installation build, that presented the user with a UI where they would login and could configure a few options before installation would start. This was a HTA Application running in WinRE. It had the front-end built with HTML/CSS and VBScript/JavaScript was used to manipulate the DOM UI (to populate forms, buttons, lists, etc.)

Auto IT

- I developed a custom application in Auto IT that allowed one Line of Service to inject specific apps that they required into the main provisioning flow.

PowerShell

- I updated the scripts that were used for disk formatting according to requirements. The scripts that interacted with the OS configuration were PowerShell.

Electron Framework

- I used the Electron framework as part of a pilot aimed at rebuilding the VBScript based provisioning application. In particular, I created the section where the available disk data/space was displayed and where the disk formatting and configuration took place.

Gitlab

- This was the source control tool of choice for the Organization I worked in. I would work daily with repos pulling and pushing updates in various repositories.

CHEF

- Attended the Oracle Open World 2019 that took place in San Francisco, as staff, member of the Employee Compute Team. Before the event I was assigned the task of developing the Windows 10 Core image that was deployed on over 1000 machines used at the show. During the event I was tasked with developing a CHEF recipe for delivering a critical patch to systems that required it.

Bootstrap

- I worked on refactoring the front end of the Self-Service Windows Installation solution. I had to recode the front-end to make it look like the UX designs. We decided to use the Bootstrap framework to refresh the UI. The Complexity of the Project was increased because at the same time the Application had to be updated to include OAuth Authentication and multiple API queries.

Hardware\devices

- I worked with enterprise user devices (Laptops) from a development perspective as I had to test the Windows images being developed, on the laptop models used in the company, this included creating custom driver packages, and working with vendors to have the images preloaded on Laptops, and firmware configured from factory, before they were shipped to employees.

Education

Faculty of Mathematics and Computer Science – University of Bucharest (2005 - 2009)

I graduated with a Bachelor's degree in mathematics.

My degree paper was on the topic: Large primes. Factorization methods. Applications in cryptography (RSA).

It received a grade of 9 out of 10

Trainings

C# - CodeCademy.com

Chef Essential for Windows

VMware - Kubernetes Fundamentals

Projects

Resume/Portfolio Website – Work in Progress!

I am currently working on developing personal coding projects and displaying them on a website.

<https://cojocarule.go.ro>

Foreign languages

English - Advanced

Hobbies

Learning about Computer & Technology, tinkering with my Raspberry PI, Coding.