

# Michalis Mylonas

## Data Engineer, Ofsted

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GitHub: <https://github.com/Mylonas>

GitLab: [gitlab.com/michalismylonas](https://gitlab.com/michalismylonas)

Location: Cardiff, Wales, UK

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### PROFILE

- A competent and highly motivated DevOps engineer who has good statistical skills, is able to perform under pressure, tackle complex problems and make informed decisions.
- A quick learner and logical thinker who can work effectively both individually and as a member of a team, capable of delivering results within set deadlines.
- Strong communication and interpersonal skills that support quick adaptation to different professional or academic environments.

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### RELEVANT EXPERIENCE AND SKILLS

#### 08/2022-Present Ofsted, Bristol, United Kingdom

##### DevOps Engineer

- Standardised the code's format, structure and style for improved consistency, readability and maintainability
- Introduced assertion and unit testing to enhance code quality and reduced the risk of bugs
- Implemented and encouraged the use of processes (lintr, styler) to check the code for syntax errors, style violations and possible bugs
- Introduced a private channel on Stack overflow for FAQ and knowledge sharing
- Data pipeline execution and code troubleshooting on Azure Cloud Platforms
- Delivered training on reproducible analytical pipelines (RAP), version control (Gitlab for CI/CD) and unit testing
- Introduced UML diagrams for visualising pipelines and deriving development tasks

#### 08/2021-08/2022 ONS, Newport, United Kingdom

##### DevOps Engineer

- Organised show & tell sessions for knowledge sharing
- Refactored code according to RAP (reproducible analytical pipelines) standards
- Responsible for the development and hand over of pipelines either as the team lead or a member of the team in R
- Code refactoring with high standards of adaptability, readability and efficiency
- Version Control with GitHub in Google Cloud Platforms(GCP)
- Responsible for training colleagues on how to use new pipelines in different environments while providing guides and training materials in PowerPoint/SharePoint
- Experience of working in business transformation programmes by automating processes and transferring them in Google Cloud Platform
- Use of JIRA for and GitHub for issue tracking and development
- Unit Testing for test driven development

#### 01/2021-08/2021 ONS, Newport, United Kingdom

##### Methods, Data & Research Analyst

- Refactored code, introduced functions, packages, configuration files and parameters to simplify the execution process
- Implemented statistical tests such as Pearson's chi squared to calculate the significance of the results
- Learned how to do version control with Git offline in BASH
- Implemented extensive testing with unit testing (using testthat and assertthat packages in R)

#### 05/2020-09/2020 Cardiff University, United Kingdom

##### MSc Thesis

- Data wrangling and cleansing in BASH
- Python and Scikit-Learn were used for improving model accuracy
- R was used for implementing differential analysis with the deSEQ2 package
- GitHub was used for version control, simultaneous code development and code sharing
- Agile methodology was used to deliver product in small increments

**01/2020-03/2020 Cardiff University, United Kingdom**

**MSc case study**

- Explored novel pipelines such as TelomereCat, TelSeq, Computel and TelomereHunter to improve telomere length predictions
- Used Python with PyCharm as IDE and Anaconda for simplified package management.
- Outlier detection was implemented for identifying anomalies-extremes and evaluating them.

**09/2019-12/2019 Cardiff University, United Kingdom**

**MSc case study**

- Data Wrangling and cleansing in Excel and R
- Hypothesis testing by either t-tests or Wilcoxon tests depending on the distribution
- Weekly slide packs for demonstrating key progress

**03/2018-06/2019 Swansea University, United Kingdom**

**BSc Thesis**

- Designed UMLs and used case scenarios for visualising workload and assigning tasks
- Used agile methodology to deliver product in small increments
- Integrated Development Environment: Microsoft Visual Studio
- Front-End design with HTML, CSS and Bootstrap
- Back-End design SQL, C#, and JavaScript

**07/2015-07/2016 Cyprus National Guard, Cyprus**

**Lance Corporal, Commander of a military outpost**

- Oversaw operational duties including maintaining and operating equipment of a military outpost
- Responsible for the effective training and monitoring of the Battalion
- Cut paperwork processing time by 90% after introducing and streamlining a new digital administrative and management process
- Implemented new watch rules which resulted in increased efficiency

**07/2014-07/2015 Cyprus National Guard, Cyprus**

**Private**

- Liaised with senior personnel for efficient execution of numerous operations
- Maintained 100% availability of weapons systems and equipment at all times to ensure quick functionality under any circumstances

**07/2011-06/2014 A&S Sotiriou Ltd, Cyprus**

**Store Assistant**

Within this role, I worked part-time alongside my secondary education.

- Opened and closed the store, which included counting cash drawers and making bank deposits.
- Assisted customers, addressed customer inquiries and resolved complaints by exchanging merchandise, refunding money, and adjusting bills.
- Recommended merchandise based on customer needs, latest trends, product quality, value and style.
- Maintained and replenished stock shelves and processed shipments and transactions, which fulfilled customer needs to ensure product availability.
- Maintained store financial records, reports and a friendly but at the same time professional customer interaction.

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## EDUCATION

**09/2019-10/2020 Cardiff University, United Kingdom**

MSc Bioinformatics (68%)

*Dissertation: Neoantigen identification from bulk RNA-seq. Writing Linux BASH scripts for RNA-seq processing, R and Python scripts for workflow analysis, outlier detection and differential analysis*

**09/2016-07/2019 Swansea University, United Kingdom**

BSc Computer Science (70%)

*Dissertation: A Visual Studio Web Application designed to aid in lab demonstrator allocations*

**09/2011-07/2014 Acropolis Lyceum**

International Baccalaureate – Apolytirion (92%)

*The main subjects were Mathematics, Physics, Chemistry, and Computer Science.*

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## ADDITIONAL SKILLS

### CERTIFICATES

- European Computer Driving License Certificate (ICDL)
- Global AML for United Kingdom (Edcomm Banker's Academy)
- LexisLibrary Foundation (LexisNexis)
- LexisNexis Advanced (LexisNexis)

## LANGUAGES

- English (Professional/Fluent)
- Greek (Bilingual proficiency)
- French A1 (Elementary proficiency)

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## VOLUNTEERING AND EXTRACURRICULAR ACTIVITIES

- Blood donor (Welsh blood service and Cyprus red cross society)
- Lifeguard & Water Safety Training
- Sports: Swimming, Basketball, Tennis and Hiking

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## REFERENCES

Available upon request