

PANTELIS MANIOTIS

Website: <https://pantmaniotis.github.io/>

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PROFILE:

A competent data engineer with a comprehensive knowledge and experience in analysing large datasets and developing forecasting models. His fields of knowledge include:

- Cloud Computing
- Relational databases
- Real-time stream processing
- Machine Learning
- CI/CD
- Business Intelligence
- Data Warehousing
- Test Driven Development
- Software Engineering

Pantelis is currently looking for a role to advance his career.

WORK EXPERIENCE:

KYMIRA

Reading, UK

Data Engineer

Jan 2022 – Now

- Implemented a fault tolerant microservice architecture using Python, Kafka, Etcd, and Elasticsearch on Azure for stateful batch/stream processing of IoT data, and the visualization of it in real-time dashboards.
- Used Docker, Kubernetes, Prometheus and Grafana for the orchestration, autoscaling, and monitoring of the microservices, along with CI/CD pipelines on Azure DevOps for their deployment.
- Designed a data lake solution to support the internal data warehousing needs, along with metadata of the data assets to enable the ease of data discovery.

CACI

London, UK

Data Engineer

Feb 2021 – Dec 2021

- Developed and maintained existing ETL pipelines using Python and Alteryx for data stored on SQL Server and AWS, to provide valuable insights regarding location planning, customer acquisition, and other key business metrics.
- Built Machine Learning models using scikit-learn in Python for the creation of customer profiles and the grouping of open-ended questions into meaningful classes.
- Created interactive dashboards on Tableau for the reporting of key metrics that were important to the clients.

UNIVERSITY OF ESSEX

Colchester, UK

Research and Development

Oct 2016 – Nov 2020

- Simulated 5G mobile networks in Python for the delivery of VR applications, in order to maximise the Quality of Experience users enjoy and minimise the operating cost.
- Developed Machine Learning and Deep Learning models using scikit-learn and Keras in Python, in order to optimise the performance of the mobile networks.

EDUCATION:

UNIVERSITY OF ESSEX

Colchester, UK

- PhD in Computer Science and Electronic Engineering

Oct 2016 – Nov 2020

ARISTOTLE UNIVERSITY of THESSALONIKI (AUTh)

Thessaloniki, Greece

- BSc and MSc in Electrical and Computer Engineering

Sep 2007– Apr 2015

SKILLS:

- **Programming:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, SQLAlchemy, Keras, Jupyter, Kafka, SQL, NoSQL, Elasticsearch, FastAPI, Flask, Alteryx, Tableau, C, C++, Bash Shell
- **Containerization:** Docker, Kubernetes
- **AWS:** EC2, S3, Glue, RDS, Athena, Elastic Beanstalk, Lambda, Step Functions
- **Azure:** Data Lake Gen2, Event Hub, Azure Container Registry, Azure Kubernetes Service, Azure Functions, Service Bus, Key Vault, Azure SQL Database
- **Version Control:** Azure DevOps, GitHub
- **Documentation:** Sphinx
- **Monitoring:** Prometheus, Grafana