

Thanassis A. Spyrou

Profile

A quantitative software engineer and product strategist primarily focused on scalable AI/ML solutions. Emphasis on applying cutting edge engineering as well as consulting services across consumer goods and services, big pharmaceutical, telco, retail, online advertising, travelling, finance and transportation commercial solutions. A wide variety of complex data contexts unified by software development, data integration, project planning within the agile sphere and consulting abilities. Substantial technical expertise complemented by international, on-site, client-facing communication and leadership.

Professional experience

June 19 - Now **Manager of Innovation, Digital Assets and Processes**
PwC, Data and Analytics

My current role is to develop the digital assets strategy as well as to establish cutting edge engineering practices for the data and analytics department. Additionally, I offer technical guidance and manage teams in regards to SDLC, architecting, coding, devops, machine learning, big data, data management/analysis, problem solving and lately cloud security.

Oct 17 - May 19 **Staff Software Engineer / Big Data Expert**
Citrix, Engineering

Completed Projects and Responsibilities

- Design/Implement streaming ML applications for Security Analytics
 - Design/Implement a performance evaluation/optimization framework for apache Spark big data applications
 - Supervising senior and principal software engineers
- Technologies: Python, Scala, Spark, Azure HDInsight

Sep 16 - Sep 17 **Senior Data Science Engineer / Architect**
Taxibeat, Engineering, Athens, Greece

Completed Projects and Responsibilities:

- Supervising small team of data scientists and engineers
 - Contributing to big data strategy
 - Responsible for the design, implementation and maintenance of the company's big data infrastructure
 - Design/Implement ML apps in batch and streaming
- Technologies: Python, Scala, Hadoop ecosystem, AWS

Jan 16 – Sep 16 **Senior Data Scientist and Analytics Consultant**
Satori, Analytics, Athens, Greece

Completed Projects and Responsibilities:

- Designing the algorithmic part of an Ad-Network aiming at dynamic personalized remarketing
Technologies: Python, Hadoop, Spark-SQL
Client: Local online advertising company
- Customer segmentation, cohort analysis and churn propensity modelling
Technologies: Hive, SQL, Python, R
Client: Global airline management company, London

Sep 15 – Dec 15

Data Scientist
Velti, Technology, Athens, Greece

Completed Projects and Responsibilities:

- Enhancing company's recommendation engine using textual information
Unstructured data management and feature engineering
Technologies: SQL, Python, R
- Customer Segmentation
Client: Local FMCG company
Technologies: SQL, Python

Jun 13 – Aug 15

Analytics Analyst
Accenture, Digital, Athens, Greece

Completed Projects and Responsibilities:

- Commercial modelling for 2 national markets.
Performance snapshot analysis, customer segmentation, channel execution, regional analyses and marketing mix modeling
Technologies: SQL, R, Excel
Client: Big Pharma, Brussels
- Sentiment analysis and topic modeling,
customer feedback exploratory analysis, using standard machine learning predictive classification techniques
Technologies: Python
Client: Global Telco, headquarters London
- Marketing mix modeling
Developing a prototype for data management, time series analysis and marketing channels attribution
Technologies: R, SAS
Client: Global retailer, US
- Market basket analysis and collaborative filtering
Technologies: SQL
Client: Global retailer, US
- Halo-cannibalisation for trade promotion optimisation.
State-of-the-art machine learning methods incorporated included for tracking halo-cannibalization effects
Technologies: VB.NET, SQL Server
Client: Accenture-CAS, Germany
- Sales demand forecasting and trade promotion optimization
Technologies: VB.NET
Client: Accenture-CAS, Germany
- Content based recommendations engine for predicting movies category(specified as mood)
Technologies: SQL

- Feb 13 – Jun 13 Data Analyst**
Tsakos Shipping and Trading, Athens, Greece
- Completed Projects and Responsibilities:
- Various web development micro projects
- Technologies: PHP, HTML, CSS
- Sep 07 – Mar 08 Software Engineering Internship**
University of Economics and Business, Athens, Greece
- Completed Projects and Responsibilities:
- Car hire web application development
- Technologies: PHP, HTML, CSS, javascript

Education

- Feb 13 – Feb 15 2-year full time MSc in Signal Processing**
National Kapodistrian University, Athens, Greece
- Thesis title: Deep Learning for Image and Text Classification
- Graduated with distinction (84%)
 - Design, implementation, validation, testing of a novel image and text classification framework based on stochastic neural networks under supervision of Prof. Sergios Theodoridis
- Sep 05 – Nov 10 4-year BSc in Computer Science**
University of Economics and Business, Athens, Greece
- First Class (74%)
 - Thesis title: Distributed feature selection for text classification under supervision of Prof. Michalis Vazirgiannis
 - A distributed feature selection and model evaluation platform in Java
 - 1 year project on design and implementation of a customized web-application for university-wide class and schedule management

Overview of expertise

- Product leadership and people management
- Design product strategy and operations
- Business prowess and ability to convert business problems to technical solutions
- International consulting experience
- Ability to communicate effectively to non technical audiences
- Big data architecting/development expertise using open source stack
- In depth understanding of AI and machine learning, including latest trends (Deep Learning)
- Over a decade hands on programming experience in a wide range of programming languages (Java, Scala, Python, R, SQL, .NET, C++) and frameworks
- Stay up to date with the latest technology trends
- Experience with DevOps practises
- NoSQL and text mining experience
- Extensive experience with typical data science tasks

- (Data management and advanced statistical modeling)
- Focus on ML deployment (end to end data science solutions)
- Attention to business value

Market exposure

- Telecommunications
- Transportation and logistics
- Traveling
- Web and online advertising
- Consumer goods and services
- Retail
- Big pharma
- Financial Services

Technical skills

- Programming languages Scala, Java, Python, SQL, C#, C/C++, R, Matlab
- Web programming HTML, CSS, Javascript, PHP
- Relational databases SQL Server, MySQL, Oracle
- Big data stack Hadoop ecosystem, Spark, Kafka, Presto, Airflow etc
- NoSQL MongoDB, Elastic Search
- Visualization Tableau, D3.js
- Version control Git
- Cloud services Microsoft Azure, Amazon Web Services
- DevOps CI/CD, Docker, Kubernetes, Unix
- SDLC Lean, Agile, ICSM

Languages

English	Excellent	Greek	Native
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References

Available upon request