

Karolos Nikitaras

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WORK EXPERIENCE

Directing Intelligence in Business, Athens — *Data Engineer*

MAY 2019 - OCTOBER 2019

- Designing and implementing ipharmakey.gr (lead developer), a web application which analyzes transactional data provided by pharmacies
- Application stack: AWS, Docker, Nginx-Angular, Unicorn-Django

Growth Digital Agency, Athens — *Junior Analytics Engineer*

AUGUST 2017 - DECEMBER 2017

- Implemented **Website Tracking** on E-commerce, Blog, Bank and Hotel websites using JavaScript, sending this data to **Google Analytics** platform
- Explored **Google Analytics** platform
- Gathered data using several **APIs** of platforms such as **Google Adwords**, **Google Analytics** and **Facebook Graph API**
- Manipulated data, created and enhanced reports using **Apps Script**, **Google Spreadsheets** and **Google Data Studio**
- Added automation to the company's processes
- Managed my own tasks and projects via tools such as Asana (work management) and Toogl (time tracking)

EDUCATION

Electrical and Computer Engineering, NTUA PhD Candidate in Machine Learning

OCTOBER 2019 - PRESENT

Electrical and Computer Engineering, NTUA Engineering Diploma

OCTOBER 2011 - JULY 2019

- **GPA 8.0**
- **Diploma Thesis**
 - Title: **Market Basket Analysis**
 - Supervisor: Andreas-Georgios Stafylopatis

In my thesis I performed **Market Basket Analysis** on supermarket data. I applied techniques such as **Association Rules Mining**, **Community Detection** and **Customer Segmentation**.

TECHNICAL SKILLS

Programming Languages

- Python, Matlab, C, SQL, JavaScript, HTML, CSS, Google Apps Script

Frameworks & Platforms

- Angular, Django, Docker, Flink

Tools

- Git, Asana, Toogl

PROFESSIONAL DEVELOPMENT

- **TensorFlow in Practice** by deeplearning.ai ongoing
- **MIT 18.065** by MIT OCW MAY 2020
- **Deep Learning** by deeplearning.ai APRIL 2020
- **Google Analytics** by Google AUGUST 2017

AWARDS

- 7th place in **Supervised Machine Learning EESTech Challenge** MARCH 2017

TRAININGS

Workshops

- Arduino operations hands-on practice
- Ionic and AngularJS cross-platform web application

LANGUAGES

- English - good knowledge
- Greek - native

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PROJECTS

DATA ANALYSIS

Machine Learning Python

- Digit Recognition
- Spoken Digit Recognition
- Music Genre Classification and Emotion Extraction
- Twitter Sentiment Classification and Emotion Intensity Regression
- Spell-Checking and Correction
- Content-based Movie Recommender

Computer Vision Matlab

- Interest Points and Features Detection
- Hand Tracking
- Human Action Detection

Digital Signal Processing Matlab

- Acoustic Signals Applications
- Human Speech Synthesis and Compression
- Microphone Arrays and Multichannel Signal Processing

Artificial Intelligence Clips, Protege

- Aircraft Fault Diagnosis Expert System
- Ontology-Based Semantic Search System for Movies

Algorithms and Complexity C

- Exercises on Greedy Algorithms, Dynamic Programming and Graphs

Stream & Complex Event Processing Flink

- Automata-based Complex Event Recognition with FlinkCEP on maritime data

Queueing Systems Matlab

- M/M/N/K Queues Simulations

DATABASE APPLICATIONS

Software Engineering Angular, Mdbootstrap, Google Maps, Spring Boot, Java, MySQL, Elasticsearch

- Event Booking Web App

Databases XAMPP (MySQL, Apache) , PHP

- Relational Database Design and Development

OPERATING SYSTEMS

Operating Systems C, Linux

- Parallel Processing Applications
- Round Robin User Space Hierarchical Scheduler
- Cgroups Applications
- Device Driver and Virtio Crypto Device