Panagiotis Tigas

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EDUCATION

2010 - 2011

MSc with distinction in Advanced Computing (Machine Learning and Data Mining)
University of Bristol, United Kingdom
Overall Mark : 74%
Supervisor: Tijl De Bie
MSc Project: "Real time jam-session support system"
> I developed a novel system which predicts chords in a jam-session at real-time using various machine learning techniques (Hidden Markov Models, Variable Order Markov Models).

selected courses: artificial intelligence, machine learning, pattern analysis and data mining, robotics uncertainty modelling, advanced algorithms, computational biology,

2005 - 2010

BSc (Hons) in Computer Science
University of Ioannina, Greece
GPA : 8.33 out of 10 (83.3%)
Supervisor: Prof. Leonidas Palios
Thesis: "Random generation of geometric structures".
> Research project on the field of approximate counting and uniform sampling of geometric structures, such as polygonizations of 2D points and simple polygons .

selected courses: high performance programming, computational intelligence, network programming, computational geometry, object oriented design, image processing

PROFESSIONAL EXPERIENCE

Sep 2015
Present

CTO / Data Scientist, Filisia Interfaces

Filisia is a startup with a mission to create technology that supports the rehabilitation of people with additional needs through adaptive sensory interfaces. During my time there I led the technology stack from prototype phase to end product, currently being used in several schools in the UK. Also worked on the data analysis platform based on Python / Django / ES6 JS / React / Redux. Other work includes iOS development and writing bare metal C for ARM M0 microprocessor.

Sep 2012
April 2016

Software Development Engineer II, Microsoft, European Search Center

I worked on Bing autosuggest and related searches services building the personalization and contextual ranking platform. My work included writing low latency (<90ms end-to-end SLA) back-end code (C#), metrics definition, improving experimentation infrastructure and writing data mining / machine learning pipelines (Airflow like DAGs) to train ranking models (MapReduce on an internal Hive like technology). Successfully shipped engagement and revenue improvements to more than 10 million users using state-of -art Learning to Rank techniques.

Jan 2011
Jan 2012

Research Collaborator (Honorary Status), University of Bristol, Dept. of Engineering Mathematics

I collaborated with Music Information Retrieval researchers and developed an application for predicting UK top-40 hits. Techniques/tools used: Hidden Markov Models, Music Information Retrieval, Django/Python.

Sep 2011 Sep 2012	**Software Developer, Buyometric, London**
	As the 1st technical hire, I designed and developed the core recommendation algorithm and engineered a system for auto tagging daily deals streams (multi-label classifier - MapReduce & PHP). Also, I developed a scalable mailing queue system which allowed us to scale from 25k emails per day to over 150k (PHP, postfix). Finally, I wrote from scratch their content management system to separate views/models/controllers and allow to grow from 1 dev to a team of 4 devs and designers.
Dec 2007 Jul 2009	**Software Developer, Plantech Ltd., Science Park of Epirus, Ioannina**
	Developed and designed web and desktop applications for various clients. I led a team of 3 people and developed a project for the department of primary education, University of Ioannina, Greece. The project was part of an intercountry collaboration between Greece and Albania.
Sep 2006 Dec 2007	**IT Support, Computer Science Department, University of Ioannina**
	My duties included IT support to students and staff, assisting the administration of the Linux lab (60 machines). Also I developed and maintained the department's technical report database (PHP, MySQL)

SKILLS

Programming Languages

Python, C#, C/C++, Swift, Java, Javascript, PHP, XHTML / CSS

Matlab, R, Prolog, Haskell

Machine Learning / Data Science

Deep Learning: Tensorflow, Keras, Recurrent Neural Networks, LSTM, Convolutional Neural Networks

OpenCV, Pandas, Scipy, Map /Reduce

Experience with Large Scale Machine Learning (deployed models to >10 million users)

Information Retrieval / Natural Language Processing

Databases

*SQL, Redis

Operating Systems

Linux, OSX, Windows

Version Control

git, svn, perforce

Other

iOS development

Human Computer Interaction

Embedded Systems Programming / IoT / Bluetooth LE

Full Stack Development

Agile Development

HONOURS

2004 - Greek Olympiad in Informatics
2004 - International Olympiad in Informatics

LANGUAGES

Greek - Native tongue
English - IELTS 7.5