

## Nikolaos Papadakis

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## Work Experience

**May 2018 – February 2021**

### **Software Developer at Netmechanics LLC.**

I worked for Netmechanics as a Back End Java developer. I developed Web Applications in Java EE 8. Some of the technologies I used are:

- Java EE 8
- JPA
- JAXRS
- Maven
- Apache Velocity template
- Vaadin 8
- Apache NiFi
- Power BI
- Microsoft Azure

In three major projects I was involved during my time at Netmechanics.

- Booking system for car rental projects
- Web crawler to extract events from portal and store it in Database
- Power BI connector to fetch data from Google Analytics, Ads and Facebook APIs and visualize them in Power BI reports.

**November 2012 – August 2017**

### **Software Developer at Empelor GmbH.**

At Empelor GmbH I had the opportunity to work as software developer and get involved in projects in various different platforms over the last few years.

- Configuration and minor implementation of an iOS software (static library) for online banking and payment applications (EBICS) using smart cards, for the security device *Secocard* that Empelor is developing (communication of iOS device and Secocard was via Bluetooth).
- iOS static library development of pseudo PC/SC layer that communicates also directly to the Smart Card inserted in Secocard (using APDUs).
- iOS static library Public Key Infrastructure environment (PKI) for security methods for generating cryptographic keys (RSA cryptosystem) and for encrypting / decrypting data on the Smart Card.
- Blackberry 10 smart card driver for S/MIME. PKI crypto library for Blackberry mobile device which communicates with an mSD smart card inserted in the internal mSD slot.

- Reference code for Android application for NXP MIFARE DESFire contactless smart cards which can be thought as a memory card with access control. This app uses NFC technology to read/write data to a DESFire card via NFC.

Summary of other projects and technology that I also have been involved with:

- iOS development payment reference apps using above libraries.
- Minor LAMP development (PHP, Apache, Ubuntu, MySQL).
- VOIP/Asterisk installation configuration.
- Security, Cryptography, RSA, PKI, SSL, Wireshark.

To request any further information about me, contact Dr. Paschalis Papagrigoriou, CEO at Empelor GmbH (papagrigoriou@empelor.com)

### **October 2010 – April 2012**

#### **Junior Software Developer at Braxtel Communications.**

As junior software developer at Braxtel Communications I had the role to implement new User Interface features to ContactQ, a call center server application that manages customer interactions (e.g. phone, email, fax and Web). The system is based on VOIP technologies (SIP) and GNU/Linux development platform. I helped in both development and testing and also fixing bugs that were detected after testing.

I had also involved in writing SQL queries within PHP files to interact with PostgreSQL database. The tools I used to implement the above were Emacs editor to write code, PHP, JavaScript, SQL, HTML, CSS, and AJAX in Linux environment. Also I was involved in testing the system, write test cases and scenarios.

### **June 2009 – September 2009**

#### **Software Consultant at ATKOsoft.**

I was responsible for training the medical stuff (doctors and nurses) of University General hospital of Heraklion Crete, Greece in the medical and statistical application of Atkosoft, E-med. An application mainly used from doctors to order medical examinations for patients.

### **November 2008 – May 2009**

#### **Internship at Hellenic Telecommunications Organization S. A. (OTE)**

Department of Diagnosis and Management of telephony and DSL damages.

My primary subject was DSL, ISDN and PSTN line failure detection and correction, communication with subscribers for configuration of terminal equipment using applications such as Alcatel, Siemens and Prometheus information data System.

## **Education**

**October 2009 – September 2010**

**University of York, Department of Electronics**

**MSc in Internet and Wireless Computing (1-Year Course)**

### **Core Modules:**

- Object Oriented Programming using JAVA
- Personal and Mobile Communications
- Advanced Internet Protocols
- Network Security
- Embedded Computer Systems

### **MSc Project (Dissertation):**

Design and implement an internet device using the Xilinx Virtex II Pro FPGA board which can be interrogated over an Ethernet connection via a friendly user interface written in Java.

Grade: Pass

**September 2001 – July 2009**

**Technological Education Institute of Crete,**

**School of Technological Applications,**

**Diploma in Applied Information Technology and Multimedia (4-Year Course)**

### **Core Modules:**

- Programming (C, C++, Java, Matlab, JavaScript, PHP)
- Databases
- Computer - Wireless Networks
- Microprocessors
- Information Systems Security

### **Degree Thesis:**

“Development and experimentation of search algorithms  
For locating resources in Peer-to-Peer networks.”

**Thesis Grade:** 10 out of 10

**GPA:** 6.41 out of 10 (Equivalent to UK 2nd class).

## **Personal Skills and competences**

### **Languages**

Mother Tongue: **Greek**

Other Languages:

- **English** – Excellent Level
- **German** – Basic Level, Goethe-Zertifikat

### **Other Issues**

- Military obligations fulfilled (November 2007 – November 2008)
- Full driving license.