

Ioannis Koutoulakis | CV

SO14 3HL – Southampton, UK

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<https://koutoulakis.github.io/>

Profile

Dedicated, results driven professional with two and a half years of experience developing mostly in C++ and Java. I enjoy combating challenging algorithmic problems, with a focus on time complexity and scalability. I have designed, documented, implemented and maintained both enterprise grade cloud solutions and mission critical embedded device software. Computer savvy, with research experience in data mining and genuine enthusiast about machine learning techniques and frameworks, namely deep learning and tensorflow. Firm open source contributor, with a multi starred activity recognition repository. Bilingual in English/Greek, with some basic understanding of the French language (B1). I am currently seeking permanent positions that will allow me to further improve my software engineering skills, especially in distributed systems.

Work Experience

Software Engineer

James Fisher Prolec, Southampton, UK,
Construction/Marine industry.

February 2019– Present

Responsibilities:

- Extend, fix and maintain mission critical safety systems for excavators. (Qt, C++)
- Simplify and extend android application that deals with defining and mapping construction site hazards. (React, Javascript).
- IoT solution designing/prototyping and helping customers with new/current IoT installations. (Qt, C++, microservices, NodeJS, containerisation)
- Unit tested the safety critical software up to the highest standards following best industry practices. (Test Coverage of 90% using QTest and Google Mock).
- Breaking down requirements into Jira tickets and Sprint work estimation.

Achievements:

- Invented easier ways through desktop app tutorials to calibrate newly purchased systems, that allowed more inexperienced service engineers to perform the initial excavator calibration, which made the products easier to distribute in a larger scale.
- Contributed in all parts of the software development life cycle in the new products and helped stabilise them.
- Received excavator operating licence, for vehicles under 10 tons.

Full Stack Software Engineer

Telsis, Fareham, UK,

October 2017– January 2019

Telecommunications industry.

Responsibilities:

- o Designed, implemented, tested and maintained enterprise grade voip telephony solutions (call center). (TypeScript, Angular, NodeJS for backend with MySQL, in a Red Hat Enterprise containerised microservices REST API architecture).
- o Rebranded, fixed, supported, maintained and helped new and existing customers with an android softphone application. (Android Studio Java, Google PlayStore managment).
- o Created microservices to provision softphones from a remote company nodejs server.
- o Fixed and maintained legacy code. (Java, Spring Boot, MySQL)

Achievements:

- o Created from scratch and maintained a SOAP server as a containerised microservice requested by a client.
- o Proposed and created an improved way to measure our product KPIs, saving development time and reducing network traffic.

Software Engineering Internship

Codly, Cairo, Egypt,

June–July 2015

Internship along with a worldwide non-profit organization called AIESEC, in a start up company in Cairo, Egypt for two months, focusing on android and web application development.

- o *Responsibilities:* Bug fixing and Demo creation for clients in Java, using Android Studio for the android developments and Eclipse for the web developments with angular for the frontend part of it.

Education

MSc in Advanced Computing

Data Mining, Machine Learning and High Performance Computing,

2016–2017

University of Bristol, UK

GPA – 2.1

Bsc in Informatics and Telecommunications

University of Athens, Greece,

2009–2014

Focus on applied Informatics, GPA – 7.28/10

Programming Languages, Frameworks & Tools

Advanced: C++, C, Java, MySQL, TypeScript, Nodejs, Qt, Git, Mercurial, Svn, Agile Methodologies, Jira, MVC Spring, JavaScript, HTML, CSS, JSP, \LaTeX , OpenMP, MPI, Matlab/Octave, Weka, Scikit-Learn, Python, Tensorflow

Basic: Docker, Elasticsearch, Maven, Ant, Google Maps Javascript api version 3, CUDA, Voicexml, Opencv, OpenGL, Bash Scripting

Publications

Learning Patterns for Discovering Domain Oriented Opinion Words, Pantelis Agathangelou, Ioannis Katakis, Ioannis Koutoulakis, Fotios Kokkoras, Dimitrios Gunopulos, KAIS 2017