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### **Education**

### The University of Edinburgh

Edinburgh, United Kingdom

M.Sc. in Computer Science (Distinction)

Sep. 2015 - Aug. 2016

- · Major: Computer Systems, Software Engineering and High Performance Computing
- Modules: Applied Databases, Distributed Systems, Extreme Computing, Informatics Research Proposal, Informatics Research Review, Java Programming, Programming Skills, Software Architecture, Process, and Management, Software Development, Software Testing
- Thesis: "Summarising How a Software API is Used Using Machine Learning and Natural Language Processing Techniques"
- GPA: 76.4/100.0

### **Aristotle University of Thessaloniki**

Thessaloniki, Greece

Sep. 2009 - Nov. 2014

M.Eng. in Electrical and Computer Engineering (2:1)

- Major: Electronics and Computer Engineering
- Thesis: "Mining Software Repositories for Test-Driven Reuse"
- Qualification: Ranked among top 3% of class
- GPA: 7.78/10.00

## **Experience**

### Hotels.com (Expedia Inc.)

London, United Kingdom

Sep. 2016 - PRESENT

ASSOCIATE SOFTWARE DEV ENGINEER

Team specific:

- Part of Customer Retention Team (CRT), which is responsible for designing and building technical solutions on how customers are identified, sign up for an account, and sign in to their account.
- Contributed to most of the key projects of the team including the redesigned "Forgot Password" flow and the "Password-less Sign-in" flow, as well as to several security-related investigations.
- Improved monitoring and alerting for our services in Grafana.
- Using Java/Scala and the Spring MVC, Spring Boot, and Scalatra Frameworks to serve web content.
- Using Spring MVC Test Framework, Mockito and TestNG for unit testing.
- Exposed to Cucumber for writing acceptance tests in Java/Scala.
- Using Docker to automate the deployment of our applications.
- Using Python to automate everyday tasks and for data manipulation.
- Using Splunk for log analysis.
- Using MySQL and Datastax Cassandra NoSQL databases.
- Following popular Agile practices including Pair Programming, CI, TDD, and BDD.
- Following the Scrum process and using Atlassian's JIRA Software to support project management.
- Using Atlassian's software products including Bitbucket Server for version control, Bamboo Server for Continuous Delivery, and Confluence for better team collaboration.

### Side projects/activities:

- Core member of the "Hacking for Gender Balance" project, an ongoing project which started as a hackathon project with its main idea being to use Jira to track candidates applications. Among others, I've implemented a Groovy listener on Jira's ScriptRunner that predicts and populates the gender of the candidate based on his/her full name, by communicating with NameApi.
- Active part of grads/interns interviews. My responsibilities included writing, reviewing, and testing the coding challenges on Hackerrank as well
  as interviewing candidates during their final round interviews.
- · Organised a brown bag session where I introduced Python to the team by going through it's syntax and a few basic examples.
- Successfully conducted a pilot user survey for *CLAMS*, the system that I developed as part of my MSc project and which I applied to Hotels.com's source code (see *Personal Projects* section).

### Skills\_

Programming Languages Java, Python, Scala, C

**Operating Systems** Linux, MacOS, Microsoft Windows

**Frameworks** Maven, Spring, Mockito, JUnit, TestNG, Hadoop MapReduce, Lucene **Databases** Microsoft SQL Server, Cassandra, MongoDB, Oracle SQL Developer

Web Development HTML, CSS, Bootstrap, Flask, Jekyll

IDEs IntelliJ IDEA, PyCharm, Eclipse SDK

Other Software LaTeX, Splunk, scikit-learn, NLTK, Matlab

**Languages** Greek, English, German

# **Volunteering**

Expedia Inc. London, United Kingdom

TEACHING ASSISTANT (TA) AT EXPEDIA CODEACADEMY "PYTHON LEVEL 2" COURSE

Jan. 2017 - PRESENT

- · Providing classroom support by answering questions, resolving technical issues, and guiding students to complete their assignments in Python.
- · Supporting drop-in sessions.
- · Providing support as well as useful resources through course's Slack channel.

Greek Army Xanthi, Greece

COMPUTER SYSTEMS OPERATOR (SOLDIER)

Nov. 2014 - Aug. 2015

- Responsible for the software used to control the targets during tank shots, as well as for many electronic devices that enabled monitoring of the shots.
- Drafted tutorials for the electronic devices and the software I used as part of my responsibilities.
- Drafted reports about results of the tank shots and about condition of the electronic equipment that was used during tank shots.
- Updated presentations used to support tank shots.

### **Aristotle University of Thessaloniki**

Thessaloniki, Greece

ORGANISING MEMBER AT "AUTH PROGRAMMING CONTESTS"

- Dec. 2013 Apr. 2014
- I focused on organising online programming contests for undergraduate students at Aristotle University of Thessaloniki (School of Electrical and Computer Engineering)
- Contributed to the website used for the programming competitions (available at http://contests.ee.auth.gr) by generating programming problems and providing analysis and solutions for the challenges.

## Personal Projects

SUMMARIZING SOFTWARE API USAGE EXAMPLES USING CLUSTERING TECHNIQUES

Mar. 2016 - Present

- Designed and developed CLAMS (Clustering for API Mining of Snippets), a Python framework for mining API usage examples.
- The system clusters client usage examples based on their API calls, generates summarized versions for the top snippets of each cluster, and then selects the most representative snippet from each cluster, using a tree edit distance metric on the ASTs.
- This results in a set of high quality API usage examples in the form of concise and readable snippets, thus enabling and supporting source code reuse even in cases of libraries with sparse or minimal documentation.
- Method is entirely data-driven, requiring only syntactic information from the source code, and so is programming language- agnostic.
- This project started as an MSc Thesis project while being a postgraduate student at University of Edinburgh, being supervised by Prof. Charles Sutton and co-supervised by Mr Themistoklis Diamantopoulos (Aristotle University of Thessaloniki).
- Currently working on applying CLAMS internally at Hotels.com during our innovation time.

#### MANTISSA: A RECOMMENDATION SYSTEM FOR TEST-DRIVEN CODE REUSE

Jan. 2013 - Present

- Designed and developed *Mantissa*, an RSSE (Recommendation System in Software Engineering) that allows code searching in growing repositories, using CSEs such as GitHub Search.
- The back-end of Mantissa is written in Python and Java while the website is a Flask application where basic web development technologies like HTML, CSS and JavaScript have been used.
- Mantissa extracts the query from the source code of the developer, and employs AGORA and GitHub to search for available source code. The retrieved results are ranked using the Vector Space Model (VSM), while various Information Retrieval (IR) techniques and heuristics are employed in order to best rank the results.
- Additional source code transformations are performed so that each result can be ready-to-use by the developer. Apart from relevance scoring,
  each result is presented along with useful information indicating its original source code, its control flow, as well as any external dependencies.
- This project started as an MEng thesis project while being an undergraduate student at Aristotle University of Thessaloniki, being supervised by Prof. Andreas Symeonidis and co-supervised by Mr Themistoklis Diamantopoulos.
- During the last 2 years we've proceeded to several improvements and feature additions, including source code transformations and extraction of the source code flow of results' methods.
- The system is available at http://mantissa.ee.auth.gr

# Conferences\_

Expedia Inc. London, UK

El Global Cloud xTech Conference

Nov. 2017

• A two-day internal conference featuring industry keynote speakers, panels and presentations from colleagues and special guests focusing on Cloud technologies used at Expedia Inc.

Dmje Lt London, UK

DEVOXX UK

May. 2017

Devoxx is a two-day annual conference that welcomes over 11,000 developers to events in Belgium, France, UK, Poland, Morocco & the USA.
 Attended several sessions, mainly related to the Java Language, Architecture, Cloud, Big Data & Machine Learning.

7<sup>TH</sup> PANHELLENIC ELECTRICAL AND COMPUTER ENGINEERING STUDENTS CONFERENCE

Apr. 2014

- A three-day conference which aims to gather every Electrical and Computer Engineering student from around Greece and give insight into the latest technological breakthroughs and the new challenges of the market. The conference, entitled "Dismantling the Problem: The Engineers of the Modern Days" included talks as well as technical sessions.
- Successfully organised a programming contest as part of "Auth Programming Contests" in the last day of the conference. The competition attracted more than 30 students.

### **Seminars**

nearForm Ltd. London, United Kingdom

MICROSERVICES DAY LONDON May 2017

A one-day, single-track, non-profit event that focuses on the evolution and transformation of enterprise from a technology perspective. The
day included, among others, talks about the pros and cons of Microservices, popular Microservices Architectures, and the approach for moving
from monoliths to Microservices.

Amazon London, United Kingdom

AWSOME DAY Jan. 2017

A one-day training event delivered by AWS technical instructors. The day included a session highlighting why customers are using AWS to
develop, deploy and operate secure applications and IT services, as well as technical sessions that covered the AWS foundational services such
as Amazon EC2, Amazon S3 and Amazon RDS.

MathWorks Edinburgh, United Kingdom

Data Analytics with MATLAB Sep. 2015

• During this seminar experienced MathWorks engineers presented how MATLAB can be used to accelerate algorithm development and exploration, and reduce development time for machine learning, image processing and computer vision applications, using live application examples.

GDG Thessaloniki Thessaloniki, Greece

GOOGLE DEVELOPER DAYS CODELAB ON THE NEW DART LANGUAGE

Feb. 2014

• Two-day event organised by Google Developers Group Thessaloniki which included tech talks as well as workshops on the DART language.

## **Meetups**\_

**Agile Testing**London, United Kingdom

TESTABLE SOFTWARE ARCHITECTURE WITH ASLAK HELLESOY!

Mar. 2017

 During that session, Aslak Hellesoy, the creator of Cucumber, suggested ways for designing and building testable software architectures, using techniques like Ports, Adapters, and Contract tests.

### **London Java Community**

London, United Kingdom

JAVA LANGUAGE AND PLATFORM FUTURES: A SNEAK PEEK

Mar. 2017

• In that session, Java Language Architect Brian Goetz offered a sneak peek at some of the features currently under exploration for future versions of Java, both short- and long-term.

Sky London, United Kingdom

THE INSIDE STORY OF USING CASSANDRA AND CONTINUOUS INTEGRATION AT SKY

Nov. 2016

 During this meetup, two of Sky's principal engineers talked about their experience with Cassandra and Continuous Integration in Sky's Online Video Platform.

**Expedia**London, United Kingdom

MULTI-VARIATE (A/B) TESTING AT EXPEDIA

Oct. 2016

An introduction to Expedia's A/B testing framework, including an overview of the technologies used and the hard lessons learned along the
way.

# **Competitions**.

**Hotels.com**London, United Kingdom

HOTELS.COM WINTER HACKATHON

Feb. 2017

- A 24-hour internal hackathon entitled "Fast on Fones R Us'.
- Developed and presented a Q&A bot that consumes Hotels.com's APIs and uses decision trees in order to facilitate hotel search, alongside a
  team of 7 software developers.

Google Virtual

GOOGLE CODE JAM 2014 Apr. 2014

• An international programming competition hosted and administered by Google.

**IEEE** Virtual

IEEEXTREME PROGRAMMING COMPETITION 7.0

Oct. 2013

• A global challenge in which teams of IEEE Student members -advised and proctored by an IEEE member, and often supported by an IEEE Student Branch- compete in a 24-hour time span against each other to solve a set of programming problems.

**IEEE** Virtual

IEEEXTREME PROGRAMMING COMPETITION 6.0

Oct. 2012

• A global challenge in which teams of IEEE Student members -advised and proctored by an IEEE member, and often supported by an IEEE Student Branch- compete in a 24-hour time span against each other to solve a set of programming problems.

### **Greek Ministry of Education, Research and Religious Affairs**

Virtual

"LYSIAS" COMPETITION

Mar. 2002

- LYSIAS is an annual Internet-based Panhellenic competition for students. Participants are required to answer 35 standardized questions (multiple choice and True/False, covering a range of school subjects (Mathematics, Physics, Chemistry, Biology, Information Technology, Ancient and Modern Greek, History, Geography, Economics, Art) as well as general knowledge questions.
- Qualified for final round (top 64 students in Greece).