

Salvatore Zagaria | Computer Science Graduate

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Professional profile

I recently graduated in Computer Engineering at Polytechnic of Bari (Master's degree). Since my background I'm willing to work in the Software Engineering field, but also I can be suitable for Software Developing and Data fields.

Thanks to my training and working experiences abroad I've developed a good attitude in team working and good communication skills. Working in English-speaking environments really helped me in this regard.

My main programming language is Python, but I have good experience and knowledge of the Object-Oriented Languages basis. Good experience with SQL and NoSQL databases. Usually I've been working in Linux environments, using the Shell bash.

I'm very passionate about new technologies, music, astronomy and cinema.

I love to put myself out there to learn, grow and get as much experience as possible. I'm looking for someone who wants to give me the chance to do it.

Core skills

- Master's degree in Computer Science.
- Python (and its main frameworks like Django, Flask...).
- Git
- Java (mainly Android developing, Firebase framework).
- MATLAB, PHP, C++.
- MySQL, MongoDB, Elasticsearch.
- Docker.
- Linux – Shell Bash.
- Theoretical knowledge of AWS.

Projects

- Anti-theft: IoT project using MySQL, Python, PHP, Java (Android) and a magnetic sensor.
- Chat app: Data security project using MySQL, PHP, Java (Android), Google's Firebase.
- E-commerce system: building of a microservices architecture and interfacing it using Python, MongoDB, Docker, JSON, Java (Android), RESTful paradigm.
- Classification of images and faces recogniser and classifier using MATLAB and Deep Neural Networks.
- Nanosat: merging satellite with social. Ideation phase.
- My personal website. Implemented with Django (Python framework).

Education and qualifications

- **Master's Degree in Computer Engineering – Polytechnic of Bari (2016 – 2018)**
Final grade: 110/110

Main exams: Advanced software engineering (30/30 cum laude), Internet of things (30/30), E-business models and business intelligence (27/30), Data security (30/30), Dynamic Systems Theory (30/30 cum laude), Formal languages and compilers (28/30), Image Processing and Artificial Vision (30/30), Systems and Measures for the Artificial Lighting (30/30).

Thesis title: Klink – an automatic approach to generate ontologies of research areas.

Scope of the thesis: Data Analysis, Implementation and refinement of the Klink Algorithm (Enrico Motta, Francesco Osborne), Prediction and analysis of scientific papers' topics.
The thesis was written at the Knowledge Media Institute of the Open University of Milton Keynes (UK).

➤ **Bachelor's Degree in Computer and Automation Engineering – Polytechnic of Bari (2012 – 2016)**

Main exams: Software engineering, Telecommunication networks, Information systems, Data base, Operating systems, Computer architectures, Fundamentals of electronics, Business and economics organisation, Fundamentals of measurement, Analysis and design of control systems, Fundamentals of Telecommunication, Numerical calculation.

Thesis title: Implementation of Android App with run-time checking of the pre-post conditions.

Scope of the thesis: Software engineering, Self-adaptive systems.

Work experience

25 March 2019 – Present **Vector GB Ltd. – London (UK)**
Software Development Engineer

Outline

Developing software for internal use.

Key achievements/projects

- I've been working on many software to support and improve the work of my team. Usually I've worked using Python and Web languages and technologies. I also improved my skills with Linux and Git.

18 August 2018 – 24 February 2019 **AKKA Technologies, Geneva (SWZ) – Cannes (FR)**
International Graduate Consultant

Outline

Work on clients' projects or internal ones.

Key achievements/projects

- I've been working on Nanosat, an internal project for the launching of a satellite. My team was meant to take care of the web interface side. My task was to ideate and implement the back-end side for testing purpose.

1 March 2018 – 30 June 2018 **Knowledge Media Institute – The Open University, Milton Keynes (UK)**
Research assistant

Outline

Thesis work.

Key responsibilities

- Implementation and improvement of the Klink algorithm (Enrico Motta, Francesco Osborne) in Python.

Key achievements/projects

- I participated to most of the brainstorming meetings.
- I fully implemented the ideas that the team has got for the third version of the algorithm.
- Third version better from all points of view.
- Most of the implementation of the new functionalities done.

1 June 2017 – 30 Sept. 2017

**Industrial Informatic Laboratory – Polytechnic of Bari (IT)
Research collaborator**

Outline

Image processing project.

Key responsibilities

- Implementation of an image classifier and a face recognizer using Deep Neural Networks in the MATLAB environment.

Key achievements/projects

- High precision reached.
- I laid the theoretical basis of the Alexnet Deep Neural Network modification.

1 May 2017 – 31 Aug 2017

**SisInfLab - Information System Laboratory – Polytechnic of Bari (IT)
Research collaborator**

Outline

Temporary research job.

Key responsibilities

- Implementation of an Android App to interface a back-end server that deals with recommendation systems.

Key achievements/projects

- Publication of the app on Google Play Store.

Certifications

- [42 hours of Learn Python Programming Masterclass](#)
- [4 hours of Django 2.1 - Python Web Development for Beginners](#)