George **Fotiadis**

Master's student in Computer Science

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Education

EPFL (École Polytechnique Fédérale de Lausanne)

Lausanne, Switzerland

Master in Computer Science — *Sep. 2020 - Present*

- Teaching assistant for *Introduction to Database systems*
- GPA 5.2/6

Bachelor in Computer Science — *Sep. 2016 - 2020*

- Teaching assistant for *Internet & Code for girls*
- GPA 4.3/6

Professional Experience

Oracle Labs

Zurich, Switzerland

Software Engineering intern — *Sept. 2022 - Present*

- Incoming software engineering intern, conducting my master thesis
- Analyzing logs and telemetry of cloud instances to predict and troubleshoot crashes

Amazon AWS

Dublin, Ireland

Software Engineering intern — *Feb. 2022 - Aug. 2022*

- Worked on AWS Aurora, a highly distributed, relational database
- Developed a novel partitioning algorithm that reduced unevenness in heat distribution by 98%
- Collaborated with cross-organization leadership and stakeholders to identify additional use cases for my project
- Lead a cross-team initiative to improve various database functionalities using machine learning

Percent Labs

Lausanne, Switzerland

Co-Founder & CEO — *Feb. 2021 - Present*

- Co-founded Percent Labs, a strategy management tech startup
- Conducted market and competitor analysis, customer interviews and product-market fit validation
- Raised funding through startup competitions
- Recruited and mentored new hires

Bloomberg L.P.

London, UK

Sofware Engineering intern — *Jul. - Sept. 2020*

- Designed and implemented an asynchronous data pipeline for Solr document ingestion using Apache Kafka
- Rewrote an entire C++ service in Python
- Reduced the end-to-end system latency by approximately 30% in early testing

Kudelski Group

Cheseaux, Switzerland

Deep Learning and Big Data Analysis intern — *Jul. - Sept. 2019*

- Analyzed logs from various sources to construct a scalable, real-time anomaly detection system
- Built a benchmark to evaluate different models' performance
- Created a template for generating new models that are compatible with the rest of the pipeline
- Created a new model that reduced training time by 45%, while improving accuracy by 8%

Other Projects

Learned range locks

EPFL

Main researcher — *Sep. 2021 - Feb 2022*

- Enhanced existing locking mechanisms in the kernel using a machine learning framework
- Modified the kernel to collect thread lock acquisition data
- Benchmarked various ML models to compare their performance with existing implementations

NLP powered news bot

EPFL

Developer

Jan. 2021 - Feb 2022

- Created a twitter bot that, given an article, returns other articles covering the same topic but from different perspectives
- Implemented, combined and tested numerous state-of-the-art deep learning models
- Created a novel evaluation pipeline to compare the different models

Computer Vision Bachelor thesis

EPFL

Main researcher

Sept. 2019 - Jan. 2020

- Designed and built a Deep Learning model that counts Zebrafish inside fish tanks
- Evaluated the system's performance on different environment settings
- Outperformed the then state-of-the-art by 14% in terms of f1 accuracy

Skills

Languages Fluent in English, French & Greek

Programming Python, Java, C, SQL, Scala, Go (Golang), React JS, C++

Tools Apache Spark, PySpark, Kafka, Pytorch, Tensorflow, Keras, AWS

Competitions

Lauzhack 5.0

EPFL, Switzerland

second place in overall ranking

Nov. 2020

Lauzhack 4.0

EPFL, Switzerland

logitech challenge winners, organizers award winners

Nov. 2019

ACM SIGMOD

EPFL, Switzerland

28th in the world

Mar. 2020 - Apr 2020

Google Hashcode

EPFL, Switzerland

13th in Switzerland

Mar. 2019

Other Competitions

Switzerland

- GSA Ultra (2019)
- START Hack (2018)
- Bloomberg Martian Challenge, 4th place (2017)
- Bloomberg Codecon (2017, 2018)

Fun Facts

Favorite movie Mamma Mia!

Hobby I'm a very solid cook if I dare say so!

Website I actually have a pretty cool website

Focus My current focus is applying machine learning techniques to improve distributed systems