Salah GHAMIZI
PhD candidate @ Snt-University of Luxembourg

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Education

SnT - University of Luxembourg *PhD Candidate: Robust & Secure Deep Learning*	2019-2022

Relevant papers:
- Ghamizi, Salah & Cordy, Maxime & Papadakis, Mike & Le Traon, Yves. (2021). **Evasion Attack STeganography: Turning Vulnerability Of Machine Learning To Adversarial Attacks Into A Real-world Application;** *ICCV21*; **to appear.**
- Ghamizi, Salah & Renaud Rwemalika & al. (2020). **Data-driven Simulation and Optimization for Covid-19 Exit Strategies.** *KDD 2020; Best Paper Award;* **10.1145/3394486.3412863**
- Ghamizi, Salah & Cordy, Maxime & Papadakis, Mike & Le Traon, Yves. (2020). **Search-based adversarial testing and improvement of constrained credit scoring systems. ESEC/FSE 2020; 10.1145/3368089.3409739**
- Ghamizi, Salah & Cordy, Maxime & Papadakis, Mike & Le Traon, Yves. (2019). **Automated search for configurations of convolutional neural network architectures. SPLC 2019; 10.1145/3336294.3336306.**

GeorgiaTech / IAE Metz (France); *I-Corps/ Msc Entrepreneurship & Management of Innovative Businesses* Relevant Coursework: *Agile & Lean Projects, Team Management, Funding Proposal writing*	2016-2017

MinesNancy, School of Computer Science *Bachelor then Master in Artificial Intelligence and Robotics*	2012-2016

Relevant Coursework: Algorithms, Data Structure, Artificial Intelligence, Image Analysis, Computer Architecture, Distributed Systems, Databases, Mobile & Web development, Probability & Statistics, Operations Research
Capstone projects:
- ReTypograph; Using OpenCV-JAVA, text extraction & automated generation of text fonts from raw pictures of historical records (2014). Paper: Lamiroy, Bart & Bouville, Thomas & Blégean, Julien & Cao, Hongliu & Ghamizi, Salah. (2015). Re-Typograph Phase I: a Proof-of-Concept for Typeface Parameter Extraction from Historical Documents. Proceedings of SPIE - The International Society for Optical Engineering. 9402. 10.1117/12.2075813.
- iCrisis ; tracking & prediction of crowd behavior in emergencies using video analysis with Optical Flows, wearable motion sensors and RNN algorithms (2016).

Work Experience

LumApps SAS, *R&D Engineer*	March 2018 December 2018

In charge of the improvements and deployment process of the platform of some of the company's major clients (Decathlon, Veolia,…) and implemented third party API integration Set up the open source SDK of the company, and supervised the continuous delivery & testing architecture of the SDK

WAZA Education,
Cofounder and CTO

Sept 2016
March
2018

Fullstack lead engineer of a team of 3 people :
- Built the MVP & Production platform using Angular & LAMP stack. Migrated the application to a GCloud scalable architecture with continuous deployment with Bitbucket pipelines. Sped up common user interaction up to 800% by refactoring runtime complexities & implementing caching and one-way bindings
- Developed the scrapping and web-parsing platform based on DomJS/NodeJs frameworks.
- Designed and implemented our Natural Language Processing pipeline and models using NLTK (Python) and StanfordNLP (Java) for POS Tagging, NER and Bayesian classifiers.
- Managed the various projects with SCRUM and test driven development processes.

PEEL - University Of Lorraine,
Software Engineer on project Edstore

March
2016 Sept
2016

- Built an AI algorithm and a platform to match Master thesis subjects proposed by business partners with courses taught in the university.
- Designed a recommender algorithm (content-based filtering). Using tf-idf and Kmeans for clusters, MLP and KNN algorithms for quasi-realtime recommendation.

Inria Grand Est,
Research Intern

June 2014
Sept 2014

Worked on the Cortex Project to build a new model for « Central Pattern Generator » based learning processes: Compared and improved Rowat-Selverson/Matsuoka models using a neural network based on dynamic Hebbian Learning (bio-inspired model for unsupervised learning).

Skills

Proficient in
TypeScript (Angular/React), Python (Tensorflow & Keras / Flask);

Experienced with
SQL, Java, Google Cloud Tools, GIT & SVN, Unit Testing, EndToEnd Testing
AI: Scikit-learn, Pandas, StanfordNLP, Classification algorithms, Recommender systems,
LAMP & MEAN stacks (NodeJs RESTful web services), Hybrid mobile development,

Familiar with
 Iphone & Android Native, Matlab, C, C++, Spark & RDFS, MapReduce, Hadoop

Recent Awards & Interests

i-LAB, Pépite (2017) - Awarded 6000$ from the *French Ministry of Research & Innovation for my NLP work on WAZA (400 candidates).*

EcoRevolutions (2016) - Awarded 12000$ from the "GrandEst" State for Edstore/WAZA project

Imagine Cup (2016) – Finalist of the competition held by Microsoft France for project Edstore

Sport : Badminton **Music** : New Age

Organizations: Junior Chamber International (project leader), TEDx MinesNancy (Founder)

Languages

French | Arabic
Mother tongues

English