OLIVIER DEISS

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Summary

- Candidate for a MSc. in Computer Science at Georgia Tech, expecting to graduate in June 2018
- Professional experience in software development on large-scale, complex projects at Thomson Reuters and Google

Education

GEORGIA INSTITUTE OF TECHNOLOGY   **Atlanta, GA, USA**
Candidate for Master of Science in Computer Science – Machine Learning   *Aug. 2016 – Jun. 2018*
- Research *(Fall 2016)*: Setting up a *Hadoop* cluster for the analysis of rosbags (*ROS*) with *C++* jobs   GPA: 4.00
- Master's Thesis: detection & classification of non-convulsive seizures using EEG data. I am working on this project under Dr. Jimeng Sun, in collaboration with Massachusetts General Hospital (MGH). We want to combine Deep Learning models with Active Learning, as most of the data is unlabeled.

SUPÉLEC   **Metz, FRA**
Bachelor of Science in Electrical and Computer Engineering   *Sep. 2014 – Jul. 2016*
- Master of Engineering to be earned upon graduation from Georgia Tech   GPA: 3.93

LYCÉE PIERRE CORNEILLE   **Rouen, FRA**
Preparatory Classes – Passed entry exam to Grandes Ecoles   *Sep. 2012 – Jun. 2014*
- Intensive program in advanced maths and physics   Rank: 1/45

Experiences

GOOGLE   **Mountain View, CA, USA**
Software Engineering Intern, Assistant, Android TV   *Jan. 2017 – Apr. 2017*
- Designed and implemented a messaging infrastructure between *Assistant Server* and *Android TV* (*C++, Java*)
- Integrated this infrastructure as a preferred alternative to *Cast*, to be used for major media queries on *Android TV*
- Enabled launching native apps, including *YouTube* and *Netflix*, from a query to *Google Home*

THOMSON REUTERS   **London, UK**
Software Developer Intern, Technology, Eikon Financial Analysis   *Jul. 2016 – Aug. 2016*
- Implemented a module to replace error messages for unauthorized content with a list of available products (*Polymer*)
- Built demo apps to introduce the feature to customers (*Node.js, Neo4j, Python* and *Mocha/Chai* for unit tests)
- My work has been shown to James Smith, CEO of Thomson Reuters, and won an internal innovation contest

INSTRUCTOR LIVE   **London, UK**
Full-Stack Developer Intern   *Jun. 2015 – Aug. 2015*
- Developed a new video player for the Android and Samsung Smart TV apps, supporting a new content provider
- Implemented a new user type on the webserver that integrates the new business model on the back-end logic
- Designed a workout planner and a calendar module for the front-end, encouraging subscriptions (*Angular.js*)

JUNIOR SUPÉLEC STRATÉGIE   **Metz, FR**
Technical Analyst   *Sep. 2014 – Jun. 2015*
- Designed & implemented a quiz module for *Aquaknow*, an online platform affiliated with the European Commission

Projects

BRAIN-COMPUTER INTERFACE   **Metz, FRA**
Research at Supélec   *Nov. 2015 – Jun. 2016*
- Led a research group through the development of software to perform real-time classification of brainwaves (*C++*)
- Achieved 70% of correct classification for simple hand gestures using machine learning and signal processing
- Using a *ROS* node combined with our algorithm, built an experiment where users pilot a robot by moving their hands

PERSONAL PROJECTS
- *DigitScanner:* implemented a neural network from scratch, achieving 98.24% of correct classification on MNIST
- *FFTOcean:* implemented the FFT algorithm for the real-time simulation of ocean water (*C++, OpenGL*)

Skills & Interests

Languages: *C++, Python, Javascript, Java*	**Libraries:** *Tensorflow, Numpy, ROS, OpenGL, SDL, OpenCV, Eigen, Qt*
Other: LaTeX, *Matlab, Asm, Vim, tmux, bash*	**Web:** *HTML/CSS, SQL, Angular.js, Node.js, D3.js, Bootstrap*
Languages: English, French	**NewbieContest:** Rank: 192/41858 – Online hacking/coding challenges

I love badminton, hiking, algorithms and *C++*. My objectives for this year are to start running, to become a stronger competitive programmer, to contribute to the Linux kernel and to reach 10 kyu level at the game of *Go*!