OLIVIER DEISS

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Summary

- MSc. in Computer Science from Georgia Tech, MEng. in Electrical and Computer Engineering from Supélec
- Professional experience in software development on large-scale, complex projects at Thomson Reuters and Google

Education

GEORGIA INSTITUTE OF TECHNOLOGY   **Atlanta, GA, USA**
Master of Science in Computer Science   *Aug. 2016 – May. 2018*
- Graduate Research Assistantship with Dr. Jimeng Sun   GPA: 4.0
  As part of my Master's Thesis on labeling techniques and interpretability of neural networks, I implemented a deep neural network to classify electroencephalograms into distinct types of seizures. I also designed an application that transforms the classifier's output into suggestions of data points with high interest in order to augment our dataset.
- *Fall 2016*: Analysis of rosbags (*ROS*) with *Hadoop* and *C++* jobs, with Dr. Cédric Pradalier

SUPÉLEC   **Metz, FRA**
Master of Engineering in Electrical and Computer Engineering   *Sep. 2014 – Jul. 2018*
- Bachelor of Science earned in 2016   GPA: 3.9
- Master of Engineering earned with graduation from Georgia Tech in 2018

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

Experiences

GOOGLE   **Kirkland, WA, USA**
Software Engineer II – Google Cloud Platform, Persistent Disk   *Aug. 2018 – current*
- Enabled write-through caching to reduce latency of read-modify-write requests for 16 kB disks used by Cloud SQL
- Implementing an interface and designing the test suite to offer Persistent Disk in alternative environments
- Participating in an effort to reduce internal storage overhead and capacity discussions
- Contributing to remote scratch, an internal fork of Persistent Disk used by tasks on Borg requiring large disk space

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*)

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 EEG signals (*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 (no libraries), achieving 98.24% accuracy 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, git/p4, bash, asm*	**Web:** *HTML/CSS, SQL, Angular.js, Node.js, D3.js, Bootstrap*
Languages: English, French	**NewbieContest:** Rank: 120/46853 – Online CTF challenges