

OLIVIER DEISS

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Green Card Holder

Summary

- 6 years of experience on large-scale systems at Google
- MSc. in Computer Science from Georgia Tech, MEng. in Electrical and Computer Engineering from Supélec

Professional Experience

GOOGLE

Kirkland, WA, USA

Senior Software Engineer – Google Cloud Platform, Persistent Disk

Aug. 2018 – current

- Technical Lead of the disk optimization backend, byte efficiency efforts, and on-disk format (8 engineers)
- Co-lead of the data integrity efforts within Persistent Disk
- Added support for instant snapshots to the backend, which maintains block deduplication
- Enabled write-through caching to reduce latency of read-modify-write requests for 16 kB disks used by Cloud SQL

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*)

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
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

GPA: 4.0

SUPÉLEC

Metz, FRA

Master of Engineering in Electrical and Computer Engineering

Sep. 2014 – Jul. 2018

- Bachelor of Science earned in 2016
- Master of Engineering earned with graduation from Georgia Tech in 2018

GPA: 3.9

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

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: Abseil, Numpy

Languages: English, French, Spanish

NewbieContest: Rank: 120/46853 – Online CTF challenges