

Grégory D'Angelo

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SELF-DRIVING CARS ENGINEER

Software Programmer with certifications and degree in data science and solid skills in solving challenging real-world problems through machine learning / deep learning techniques. Eager to implement new technologies and motivated to provide expertise in applying predictive models to massive data sets.

SKILLS

- Strong: C++, Python (NumPy, Pandas, Scikit-Learn, Matplotlib), JavaScript (ES6+), Spark, MongoDB, Git
- Experienced: Node.js/Express, React.js/Redux, Angular 2
- Basic: Unix, SQL, Webpack
- Languages: French (mother tongue), English (fluent), Spanish (notions)

PROJECT EXPERIENCE

VEHICLE DETECTION AND TRACKING

Nov 2017

- Performed features extraction using YCrCb color transform, histograms of color, and Histogram of Oriented Gradients (HOG) on a labeled training set of images
- Trained a Linear SVM classifier and proudly achieved a test accuracy of 98.8%
- Implemented a sliding-window technique and used the trained classifier to search for vehicles in images
- Successfully estimated a bounding box (using heat map) for tracking detected vehicles along the test video

ADVANCED LANE FINDING

Oct 2017

- Implemented a software pipeline to detect lane lines in a video from a front-facing camera on a car, using advanced computer vision techniques (camera calibration, perspective transformation, sliding windows)
- Successfully found lane lines from the test video

PROFESSIONAL EXPERIENCE

ESKER – Lyon, France

Software Implementation Specialist, Nov 2014 - Present

- Work as part of a team (15 people) or independently to implement Esker's on-premise software and SaaS solutions
- Collaborate closely with 100+ B2B customers to define requirements, customize and test the application and train end users
- Improve customers experience and resolve issues for clients by working with cross-organizational teams (sales, research & development and technical support)
- Guide and train less-experience implementation specialist

WORLDLINE, AN ATOS COMPANY – Lyon, France

Software Engineer - Internship, Jun 2013 - Dec 2013

- Designed and programmed, as part of a team, a web application using Java EE of an e-commerce website for the world's largest chain of fast food restaurants
- Worked with a cross-functional team of front-end and back-end software engineers, mobile software engineers, and database administrators

EDUCATION

INSA – Lyon, France: *Master's Degree in Telecommunications, Services and Computer Systems Networking, Sep 2014*

SJTU – Shanghai, China: *Master Degree in Telecommunications, Services and Computer Systems Networking – Exchange Student, Sep 2014*

POLITECNICO DI TORINO – Torino, Italy: *Master's Degree in Telecommunications, Services and Computer Systems Networking – Exchange Student, Sep 2014*

INDEPENDENT COURSEWORK

UDACITY: Self-Driving Cars Nanodegree & Machine Learning Nanodegree

MICROSOFT: Professional Program in Data Science

MONGODB: M101JS and M102 courses, and MongoDB Certified Developer Associate

PERSONAL

- Founder and technical writer at EloquentWebApp.com about JavaScript, React.js and AngularJS