David Gallardo Jiménez

SOFTWARE ENGINEER · MACHINE LEARNING ENGINEER

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Agustín Lara 14,
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Objective

Result-driven professional with experience in academic research looking to transition into software engineering. His previous role required strong time management skills and high communication skills. Furthermore, having followed good coding practices in every project he has been involved, he is expected to quickly adapt to a software role. A highly motivated individual eager to proving himself in a new role.

Work Experience

Sept. 2017 - Dec. 2020

Computer Vision Research Assistant / Universidad Carlos III de Madrid

- Development of a road markings segmentation system for aerial images by means of deep learning algorithms. The system was built in **Python** (Tensorflow, OpenCV).
- Development of segmentation system for automatic detection of surface imperfections on airfield pavements based on drone-captured images and deep learning algorithms. This project was the result of a collaboration between Universidad Carlos III and Canard Drones. The aim of this project was to obtain the GPS location of the surface imperfections using drone-captured images so as to reduce the impact of the pavement maintenance in the daily airport operations. The system was built in **Pyhton** (Pytorch, OpenCV).
- Implementation of a human-robot interaction system to assist reduced mobility people in their daily tasks. The aim of this project was to build a deep learning system that uses real-time video captured by a wearable camera (eye-tracker) to predict which object the user is about to grasp. Additionally, a speech-to-text system was implemented to further enhance the interaction between the robot and the human. The system was built in **Pyhton**.

Education

Sept. 2017 - Sept. 2019

Master's Degree in Telecommunication Engineering / Universidad Carlos III de Madrid

- **Avanced Multimedia Systems** qualified with honors (9/10): RTP and SIP programming with **C** and **Java**
- **Data Analysis Techniques** qualified with honors (9/10): machine learning algorithms with **Python** (using numpy, scikit-learn and pandas)
- Dissertation (10/10)*: "Pavement segmentation system for automatic inspection of surface imperfections in airport"*
- Average grade: 7.0

Sept. 2012 - Sept. 2016

Bachelor's Degree in Telecommunication Engineering / Universidad de Granada

- Telecommunication Systems Specialty: multimedia systems, antenna design and wireless communications
- Dissertation (9.6/10): "*Implementation of a speaker and speech recognition application for Android mobile devices*"
- Average grade: 8.34

Skills

Programming languages	Python, Java, C, PHP, JavaScript, HTML, CSS
Programming Frameworks	Flask, Django, Pytest, Java EE, OpenCV, Pytorch, Tensorflow, scikit-learn, numpy, pandas
Databases	MySQL, MongoDB, Elasticsearch
Programming Tools	Visual Studio Code, Eclipse, Android Studio, Git, Matlab
Languages	Spanish (native proficiency), English (C1 CEFR)
Misc	Driver's license