# **AGHILAS SINI**

## Research And Development Engineer (2 ans d'expérience)

(+33) 07 · 77 · 33 · 37 · 64  $\diamond$  sini.aghilas@gmail.com 615 Rue du Jardin Botanique  $\diamond$  Villers les Nancy , 54600 France

#### **SKILLS**

### Dévelopement web Front

JavaScript, jQuery, Ajax CSS3, Boostrap 3, HTML5

## Simulation/Calcule Numérique

Matlab, Octave

## Géstion de Génération/Scafolding

Bower, Yeoman, Grunt, NPM

## Machine Learning/Data Science/Robotic

DL4J, Theano, TensorFlow, R, ROS

### **Programming**

Shell script, Windows Batch script, Jython C, C++, Java, Python

### Protocols & APIs

XML, JSON, SOAP, REST

## Méthode / Analyse

Méthode UML, Agile(SCRUM)

## Gestion de configuration/Industrialisation

Git, Maven3, Jenkins

### **EDUCATION**

2014	Master 2 - Artificial Intelligence, Pattern Recognition and Robotics University Paul SABATIER- TOULOUSE. France
2013	Master 1 - Real Time Systems Engineering University Paul SABATIER- TOULOUSE. France
2011	B.Sc - Control System and Automation University Mouloud MAMMERI- TIZI OUZOU. Algeria

## January 2016 - March 2016

#### Enseignant Vacataire

IUT Charlemagne, Université de Lorraine, Nancy. France

### Principaux domaines d'intervantion

- Introduction à la programmation Web Front end
- Cours avancé en JavaScript, JQuery, Ajax, Rest.
- Mini Projet.

#### **Environnement Technique**

• JavaScript, JQuery, Ajax, JSON, Rest.

## January 2016 - Present

### Ingénieur de Recherche et Dévellopement

LORIA-INRIA Nancy Laboratory. France

IFCASL Project Individualized Feedback for Computer-Assisted Spoken Language Learning

#### Principaux domaines d'intervantion

- Modification and re-synthesis of learner audio samples using teacher audio samples based on Pitch Synchronous Overlap and Add algorithm
  - Feedback to correct devoicing of final consonants in French spoken by German learners
- Improving speech text alignment for language learning using deep neural network, training network with theano and decoding with DL4J (IFCASL Corpus)
  - Extraction of speech features for pitch detection using deep neural network

### Environnement Technique

• Java, Python, TensorFlow, Theano, R

## November 2014 - December 2015

### Ingénieur de Recherche et Dévellopement

LORIA-INRIA Nancy Laboratory. France

ORTOLANG Project Open Resources and TOols for LANGuage

#### Principaux domaines d'intervantion

- Development of syntactic-semantic analyser for spoken documents in French language open source tool J-Safran released by LORIA. Includes dependency parser for oral speech and inclusion of inference of partial semantic role labels on top of syntactic parsing
- Tool for semi-automatic alignment of speech and textual corpus open source tool JTRANS releseed by LORIA. Working on correction of speech text alignment around silence segments.
- Interactive tool for speech signal processing and phonetics open source tool JSnoori released by LORIA. Development of module for pitch estimation

## Environnement Technique

• Java, Jenkins, Git, Linux, Yoeman, Grunt, Bower, NPM