AGHILAS SINI

Research And Development Engineer (2 ans d'expérience)

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615 Rue du Jardin Botanique ◇ 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
- Maintenance évolutive d'outils d'analyse et traitement de signal de parole (JSnoori), d'alignment parole texte (JTrans), d'analyse simantique-syntaxique (J-Safran),
- Re-factoring du code, de l'architecture.
- Dévellopement de Portail web pour les outils.
- Ecriture de test unitaire.
- Ecriture de test de covering.
- Ecriture de test d'integration continue.

Environnement Technique
- Shell Script, Jython, Java, Linux.
- Jenkins (INRIA platform), Clover.
- Yeoman, Bower, NPM, Grunt, Git.
- HTML5,CC3, JavaScript.

Principaux domaines d'intervantion
- Maintenance évolutive d'outils d'analyse et traitement de signal de parole (JSnoori), d'alignment parole texte (JTrans), d'analyse simantique-syntaxique (J-Safran),
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- Ecriture de test unitaire.
- Ecriture de test de covering.
- Ecriture de test d'integration continue.

Mars 2014 -Août 2014
Stage d'ingénieur de recherche
LORIA-INRIA Laboratory Nancy.

Principaux domaines d'intervantion
- Control of a mobile robot movements to localize a sound source as quickly as possible. The belief about the source position is represented by a discrete grid and a dynamic programming algorithm was introduced to find the optimal robot motion minimizing the entropy of the grid.

Environnement Technique
- C/C++, Python
- Robot Audition HARK, ROS
- Kinect, TurtleBot, Linux.

PUBLICATION

E. Vincent, A. Sini and F. Charpillet, "Audio source localization by optimal control of a mobile robot", Acoustics, Speech and Signal Processing (ICASSP), 2015 IEEE International Conference on, South Brisbane, QLD, 2015, pp. 5630-5634.

LANGUAGE

Kabyle (native) **French** (fluent) **Arabic** (fluent) **English** (intermediate) **German** (beginner)

REFERENTS

Yves Laprie	Research Director, CNRS Multispeech
	yves.laprie@loria.fr
Denis Jouvet	Research Director, INRIA Multispeech
	denis.jouvet@inria.fr