SOFTWARE ARCHITECT · PART-TIME LECTURES

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Experience

UNIVERSITY OF ALACANT

Part-time lecturer San Vicent del Raspeig

Oct. 2019 - present

Nov. 2017 - present

- Teaching in Mathematics and Computer Science degrees
- Programming algorithmic fundamentals and advanced techniques for software specification

Data Scientist, Natural Language Processing and Machine Learning engineer

San Vicent del Raspeig

University of Alacant

• Lead developer in EU funded projects in coordination with

- University of Edinburgh, Prompsit, TAUS, Omniscien and John Hopkins University:
 - * ParaCrawl (Provision of Web-Scale Parallel Corpora for Official European Languages)
 - * Paracrawl 2 (Broader Web-Scale Provision of Parallel Corpora for European Languages)
 - * Paracrawl 3 (Continued Provision of Web-Scale Parallel Corpora for European Languages)
- University of Groningen, Jožef Stefan Institute, Prompsit:
 - * MaCoCu: Massive collection and curation of monolingual and bilingual data: focus on under-resourced languages
- The work focus on creating corpora for all EU official languages (full list at Paracrawl site and MaCoCu site) by a broad web crawling effort.
- Designed state-of-the-art methods for the entire processing chain, from identifying web sites with translated text all the way to cleaned parallel corpora that are ready as training data for CEF Automated Translation.
- Coordinated and maintained Open Source Software Bitextor [Github] (bash, python, C++, snakemake, awk...), the production-ready tool that merges all this necessary technology chain for these projects, run under HPCC-Cloud scale (Cambridge Service for Data-Driven Discovery, CSD3).
- OS administration of various Linux-based systems (Scientific Linux, Ubuntu, Fedora)

Data Scientist, Natural Language Processing and Machine Learning engineer

Flche

Prompsit Language Engineering May 2015 - Oct. 2017

- · Developing natural language related projects as Reverso Context, processing full range of corpora and language resources
 - developed for Reverso/Softissimo (approx. rank 300 in Global Alexa Ranking)
 - several million page-views per day, big data Cloud scale computing
 - grown in an agile development team
 - using technologies as SVN, pandas, jupyter, bash (UNIX tools), word2vec, keras, scipy and Apache Solr
 - Language resources I was developing were in all available languages in the app (Arabic, German, English, French, Hebrew, Italian, Japanese, Dutch, Polish, Portuguese, Romanian and Russian)

Full-stack developer intern

Elche

Feb. 2013 - May 2013

PROMPSIT LANGUAGE ENGINEERING

- Developing news sentiment analysis
- Python and bash for crawling and cleaning natural language from all downloaded HTML data
- AJAX, jQuery, CSSv3 and PHP for a real-time refreshed interface for dataset development
- MySQL for dataset storage

Education

Master's Degree in Artificial Intelligence, Pattern Recognition and Digital Imaging

València

Universitat Politècnica de València

Sep. 2014 - Jun. 2015

- GPA: 8.81/10
- M.Sc. specialised in natural language processing and deep learning
- Coursed machine learning MOOCs of Andrew Ng (Stanford) and Yaser Abu-Mostafa (Caltech)
- · Master Thesis: Audio classical composer identification in MIREX 2015: submission based on Structural Analysis of Music

Computer Science Degree

San Vicent del Raspeig

Sep. 2010 - Jun. 2014

University of Alacant

- GPA: 8.53/10
- B.Sc. specialized in Informatics (robotics, machine learning, artificial vision, compilers)
- Enroled in the group of high profile academics programme
- Diploma Thesis: Dodecaphonic music composer assistant with OpenMusic

Publications & Awards

ParaCrawl: Web-Scale Acquisition of Parallel Corpora

Online

ACL 2020 6 July, 2020

 Marta Bañón, Pinzhen Chen, Barry Haddow, Kenneth Heafield, Hieu Hoang, Miquel Esplà-Gomis, Mikel L. Forcada, Amir Kamran, Faheem Kirefu, Philipp Koehn, Sergio Ortiz Rojas, Leopoldo Pla Sempere, Gema Ramírez-Sánchez, Elsa Sarrías, Marek Strelec, Brian Thompson, William Waites, Dion Wiggins, and Jaume Zaragoza.

Computer Science Degree graduation and M.Sc scholarship

San Vicent del Raspeig

BEST ACADEMIC RECORD

201

University of Alicante, Generalitat Valenciana

B.Sc thesis defense

San Vicent del Raspeig

HIGHEST MARK (OUTSTANDING WITH HONORS)

2014

University of Alicante

Skills_

Natural Language Processing tools Moses, Marian, Bleualign, Bitextor

Scripting and tools git, CMake, tmux, Python, Lisp, Bash, AWK, Perl, systemd

Machine Learning Toolkits TensorFlow, Keras, PyTorch, pandas, sklearn, numpy, scipy, matplotlib

Programming C++, C, Java, Golang, JAVA, Rust, LaTeX

Languages English (proficient), Spanish (native), Catalan (native)

Extracurricular Activity

Clarinet Professional degree

Flche

ELCHE SCHOOL OF MUSIC

Sep. 2004 - Jun. 2010

- Specialized in jazz improvisation with Miguel García Ferrer
- MOOCs on jazz improvisation with Gary Burton (Berklee School of Music)
- MOOC on fundamentals of rehearsing music ensembles with Dr. Evan Feldman from the University of North Carolina at Chapel Hill
- After studies, gained experience in several youth orchestras, symphonic wind orchestras and rock, swing and jazz bands, writing arrangements, improvising, while playing clarinet and piano as soloist. Non-professional experience with saxophone, guitar, ukulele, bass and drums.

Hardware-related projects

SELF-TAUGHT

- Electronic repairs, modding and programming on old video-game platforms. Winner of the "best sound" award at "Retroconsolas Alicante 2013" for my Amstrad CPC 464 entry.
- Open source 3D design (Autodesk), modeling and printing. Volunteer with "3D Makers Elche" during COVID-19 lockdown by printing more than two hundred face-masks for near hospitals.
- Open source PCB layout design using EAGLE and KiCad, with real production in factories as OSHPark and JLCPCB, for computers and consoles from the 80's (Commodore and Game Boy).