

Alejandro SUÁREZ

Engineering thesis student and Full Stack developer

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🇦🇷 CUIT 20-37027236-1



Engineering thesis student and Full Stack web developer. Experience and interest in areas such as programming, machine learning, and digital signal processing.

PROJECTS

CHROMAGRAM EXTRACTION USING NEURAL NETWORKS FOR AUTOMATIC CHORD ESTIMATION TASKS

2020

 <https://alesua93.github.io/thesis.pdf> (spanish)

A neural network was trained using artificially generated data for the purpose of extracting chromagrams (time vs. musical note matrices) from music audio signals, and an Automatic Chord Estimation system was built around it. Thesis opting for Engineering degree.

Machine learning Digital Signal Processing Python Keras Tensorflow

COLLEGE INSIGHTS

2020

 <https://collegeinsights.road2college.com/>

Web platform providing information regarding US universities. Offers free and premium tiers, with integrated payments leveraging Stripe APIs. Users with administrator privileges can access a backend dashboard to upload new colleges data, manage backups, and see the app's users, among other things.

PHP MySQL Docker Laravel VueJS Stripe

SENIORS FIRST CONTROL PANEL

2020

(Client's internal project)

Administrative tool developed for the Seniors First platform (<https://seniorsfirst.care/>). Displays several custom tables and metrics calculated using data fetched from the main platform's microservices. A role-based access control system was also implemented to allow or restrict access to certain types of users (for example, the client's stakeholders are provided accounts that can only see certain metrics). Implements CRUD functionality to manage user accounts.

PHP MySQL Laravel VueJS D3

SOUND PRESSURE LEVEL MEASURING SOFTWARE

2018

 https://github.com/AleSua93/slm_matlab

Software that facilitates the calculation of Sound Pressure Levels from audio recordings. The implemented GUI allows for the visualization and exporting of results.

Digital Signal Processing Matlab

PROFESSIONAL EXPERIENCE

Present February 2019	Full-Stack Developer, ZAREGO S.A.S. <ul style="list-style-type: none">> Development and support for web pages and applications, using front and backend technologies, implementing best practices in software development.> Client consulting.
April 2019 June 2018	Acoustical Measurements Technician, ARQUISONIC S.R.L. <ul style="list-style-type: none">> Performance of acoustical measurements according to Law N° 1540/04 (Acoustic Contamination Control in Ciudad Autónoma de Buenos Aires) and Order N° 740/GCABA/07.> Writing of technical reports of Acoustic Impact Evaluation.
July 2018 August 2017	Acoustic/Electronic Technician, UNTREF - COMPLEX EQUIPMENT AREA <ul style="list-style-type: none">> Management and maintenance of specialized audio equipment.> Consulting in the use of said equipment.> Listing of equipment to be added for licitations.

RELEVANT SKILLS

Technologies and architectures	Web development, Machine Learning, REST APIs, Object Oriented Programming (OOP).
Programming languages	PHP, Python, Javascript. HTML and CSS.
Programming Frameworks	Laravel, VueJS, Tensorflow, Keras.
CSS Frameworks	Bootstrap, Tailwind CSS.
Databases and ORM	MySQL, Eloquent.
Development tools	Git, Postman.
Middleware	Apache, Nginx, Docker.
AWS	EC2, Lightsail, S3
OS	Debian GNU/Linux
Others	Matlab, \LaTeX , Wordpress, Limesurvey.

LANGUAGES

- › Spanish (native)
- › Advanced english (oral and written) - B2 First Certificate Exam, passed with a score of 91/100.

ACADEMIC FORMATION

2020 (estimated) Engineer - Sound Engineering - National University of Tres de Febrero (UNTREF)