Álvaro Joaquín **GAONA**

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Rivadavia Av. 5560 3B, CABA, Argentina
October, 1st. 1991 (26 years) at Buenos Aires, Argentina

Electronics Engineer

Education

2018-2020	Universidad Favaloro - Master in Biomedical Engineering
2010-2019	University of Buenos Aires - Electronics Engineering BS degree - GPA : 3.5 - Graduating on Summer 2019.
TBD	Cambridge - Certificate of Proficiency in English.
2004-2009	Social Military Institute Dr. Dámaso Centeno - Secondary School Degree with option in Mathematics and Natural Sciences
2008	Cambridge - First Certificate in English.

Skills

- **Software Engineering :**
  - Main programming experience in C/C++, Python, Go, JavaScript.
  - Familiar with Java and Ruby.
  - Database design and modeling. Experience with PostgreSQL, MongoDB.
  - Experience in Front-end development with technologies such as React-Redux, Angular, Less.
  - Familiar with CPU internal architectures.
  - Experience developing web applications with Django, Express.js and Ruby on Rails.
  - Experience with version control tools such as Git.
  - Experience with CI/CD tools such as Jenkins.
  - Familiar with configuration management tools such as Ansible, Chef, Puppet.
- **Hardware Engineering :**
  - Digital systems design and verification with VHDL on FPGAs.
  - Assembly / C programming of microcontrollers for embedded systems. Familiar with ARM Cortex architecture and Real-time Operating Systems.
  - Analog and digital circuits analysis and design skills.
  - Experience using high frequency lab equipment, such as network analyzers, spectrum analyzers, oscilloscopes.
- **Bioengineering :**
  - Strong foundations on Bioelectrical Signal Processing.
  - Understanding of medical devices and measuring techniques.
  - Foundations on physiological systems.
- **Networking Infrastructure :**
  - Studies on Digital Communication theory.
  - Understanding of TCP/IP, HTTP, DNS, SSL.
  - Familiar with routing protocols and data center technologies.
  - Experience in VIM technologies, such as vSphere vCenter, Openstack, AWS, GCP.
  - Experience with containers orchestrator such as Kubernetes with Docker containerization.
- **Data Science :**
  - Experience with Matlab/Simulink for data analysis.
  - Strong foundations on Linear and Non-linear Algebra, Calculus and Statistics.

Professional Experience

Present – December 2015 | **Telecom S.A**

- Backend development for networking applications in Python and Ruby.
- Front-end development with technologies such as React-Redux and Nodejs (HTML5, CSS, CSS-in-JS).
- API design and implementations.
- Experience with relational and non-relational databases (Postgres, MongoDB, Cassandra).
- Experience in Micro-services architecture design implemented with with Docker and Kubernetes.
- Environment configuration and management for workloads in public clouds (AWS, GCP).
- Tools development in Go and C/C++.
- Responsible for NetOps automation.

December 2015 – Febraury 2015 | **Servicio Meteorológico Nacional**

- Staff member of the circuits design laboratory for meteorological instruments.
- Meteorological measurement devices installation in Airports and Military bases.

January 2010 – December 2009 | **Instituto Social Militar Dr. Dámaso Centeno**

- Mathematics and physics teaching assistant for secondary school students.

Languages

Spanish : Native
English : C2

Projects

- Data analysis and filtering of ECG and EEG signals using Matlab.
- Design and implementation of Visual SLAM (*Simultaneous Localization and Mapping*) algorithm based on Extended Kalman Filtering and 1-Point RANSAC.
- Analog and digital design and implementation of a battery charger based on DC-DC Converters and microcontroller loop-closure.
- Analog and digital design and implementation of a guitar pedal.

References

Dr. Eng. Arini, Pedro,
@ pedroarini@conicet.gov.ar

Eng. Liguori, Ariel Marcelo,
@ arielik@gmail.com