



PROFILE

Programming has always been a critical part of my career and I developed a keen interest in this field. I graduated as a full stack developer and, besides my experience, I consider myself with the ease and the willingness to learn. In addition to my technical knowledge, I work great with others and have favorable communications and leadership skills. I also have ability to adapt myself to evolving work environments, and to manage responsibilities and challenging situations. My main goal is to progress as a software developer while contributing with my work.

LANGUAGE SKILLS

English CEFR: C1

CONTACT

PHONE:
(54 9 351) 6619395

GitHub:
<https://github.com/marperseg>

LinkedIn:
www.linkedin.com/in/mperezsegura

EMAIL:
mperezsegura@unc.edu.ar

Martín Eduardo Pérez Segura

Full Stack Web Developer
(ENGINEER, PhD)

EDUCATION

Neuronal Networks

Postgraduate Course

June 2023 – December 2023

Universidad Nacional de Córdoba – Facultad de Astronomía, Matemática, Física y Computación (National University of Córdoba – Faculty of Astronomy, Mathematics, Physics and Computer Science).

Full Stack Web Developer

Node.js, Express, MongoDB & More: The Complete Bootcamp 2023.
Node, Express, MongoDB and Mongoose; RESTful API; data in NoSQL databases; Advanced authentication and authorization.

December 2022 – April 2023

Udemy.com

Postgraduate Diploma: Programming and software architecture, front-end, back-end, web services, data bases.

January 2022 – December 2022

ICARO AS (<https://icaro.org.ar/>) & Universidad Nacional de Córdoba – Facultad de Ciencias Exactas Físicas y Naturales (National University of Córdoba – Faculty of Exact Physical and Natural Sciences).

High Performance Computing Camp

Techniques and methodology for parallel programming.

September 2017

Universidad de Buenos Aires (National University of Buenos Aires) & Universidad de la República Uruguay (Uruguay Republic University).

HPC and Parallel Computing

Postgraduate Course.

June 2016 – December 2016

Universidad Nacional de Córdoba – Facultad de Astronomía, Matemática, Física y Computación (National University of Córdoba – Faculty of Astronomy, Mathematics, Physics and Computer Science).



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PROGRAMMING EXPERIENCE

2022 – On Course

Over a year working on web applications projects in Bootcamps and formation courses. (Projects views are available on [GitHub profile](#)).

April 2017 – On Course

As Graduate Research Fellow: Over 5 years designing, analyzing and developing high performance scientific software for numerical research and experimentation.

PROGRAMMING SKILLS AND COMPETENCIES

- Application development with Node.js and Express.
- Incorporation of Middleware. HTTP protocols and requests.
- JavaScript and TypeScript, HTML5, CSS, JSON/XML.
- AI, Machine Learning, Computational and mathematical basis, development and implementation with PyTorch and TensorFlow.
- Web page creation with Angular and Angular Material.
- Fundamentals of Model-View-Controller (MVC).
- Web Services, REST APIs, CRUD.
- Relational databases with SQL and MySQL.
- Non-relational databases with MongoDB and Mongoose.
- Object Oriented Programming (OOP), OO Analysis and Design.
- Other programming languages: Fortran2015/2018, C, Cuda, C++.
- Agile methodologies and Scrum framework.
- Computer Sciences: Software architecture, software design, data structure and algorithms design, hardware-awareness. Scientific programming, numerical experimentation.
- High performance computing with CPU (OpenMP, MPI, intrinsics) and GPU (CUDA, CuBlas, CUDA Fortran PGI).

ADDITIONAL EDUCATION

PhD in Engineering Science

Research area: Computational models and numerical tools for non-linear structures analysis and aeroelasticity.

April 2017 – May 2023

Master Degree in Aerospace Engineering Science

Thesis: An UVLM Computational Implementation Based on the Object-Oriented Programming and Co-Simulation Paradigms.

April 2015 – August 2018



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Aeronautical Engineer

April 2009 – September 2014

Universidad Nacional de Córdoba – Facultad de Ciencias Exactas Físicas Y Naturales (National University of Córdoba – Faculty of Exact Physical and Natural Sciences).

ADDITIONAL WORK EXPERIENCE

Adjunct Professor

November 2018 – On course

Universidad Nacional de Córdoba – Facultad de Ciencias Exactas Físicas y Naturales – Departamento de Estructuras (National University of Córdoba – Faculty of Exact Physical and Natural Sciences – Department of Structures).

Professor

June 2023 – On course

Online courses teacher in Software Development, Node.js, MongoDB, Software Design, Web Development. Fundación Aprueba. Bogotá, Colombia.

Independent Consultant

January 2018 – On course

Consulting services and specialized engineering solutions for multiple clients.

Graduate Research Fellow

April 2017 – On Course

Institute for Advanced Studies in Engineering (IDIT) of the National Scientific and Technical Research Council (CONICET).

Pérez Segura, Martín Eduardo