

Ezequiel Miravalles

SENIOR FULL-STACK SOFTWARE ENGINEER AND ARCHITECT

Profile

Enthusiast and innovative senior **full-stack software engineer**, software **architect** and **consultant**. With **expert skills** forged in more than **20-years** of continuously providing solutions on the IT field with a broad diversity of teams.

Tireless learner and researcher with an extensive and deep knowledge and experience on computer systems: from **web applications** to **embedded systems** and **robotics**; from **PHP** and **Node.JS** to **C-language** programming and **Assembly**; from **clouding container microservice deployments** on **Kubernetes** to legacy bare-metal standalone apps.

Effective **communicator** with good **interpersonal and leadership skills**.

Linux and **Docker** advocate, focused on designing and implementing **microservice software architectures** for more than 5 years.

Committed to continuous **innovation** and improvement.

Adept of **automation** of both repetitive procedures and **testing**.

PHP expert, **Node.JS** upholder. **React** + **Material UI** lover.

IT security devotee with **pentesting**, **reverse-engineering** and **white-hat hacking** skills.

Creator of CMS-CRM-ERP online software design system at InsigniaDB.com, used to implement complete **rapid-changing web-based business-management systems** for different **companies** and **industries** with a broad range of technologies as a **SaaS**.

Employment History

Founder and Software Architect, InsigniaDB.com

2016 — PRESENT

Created the core software of the company. A industry-agnostic rapid-change mostly-codeless web-application platform to design and implement complete business management systems for different kinds of industries. Prioritizing security, speed and efficiency. Both for desktop and mobile platforms. With full automated-testing. Leading and coordination of the development team.

Cofounder and Software Architect, DataEngine.com.ar, Buenos Aires, Argentina

2010 — PRESENT

Created the DataEngine.com.ar platform engine, based on the former InsigniaDB.com core. Migrated to the current InsigniaDB engine. Focused on quickly providing rapid-change business management web-systems for different kinds of industries. Committed to long-term customer consultancy, support and maintenance. Offering services to both private and public sector companies.

IT Consultant, IT Manager and Developer, Buenos Aires City Government, Buenos Aires, Argentina

2005 — PRESENT

Designed and implemented the software system to automate the on-field data-gathering, data-processing, report generation and monitoring dashboard for

Details

Buenos Aires
Argentina
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Skills

- Effective Team Leader
- Highly responsible and reliable
- Good communication and interpersonal skills
- PHP. Laravel. Symfony.
- Node.js
- React. Material UI. HTML5+CSS.
- MySQL. MongoDB.
- C++
- Docker and containerization
- Selenium and Puppeteer
- White-hat hacking
- WordPress integrations

Hobbies

Swimming, running, snowboarding. Guitar playing and song composing.

Languages

- English
- Spanish

safety and health inspections made on all school and administrative Government dependent buildings.

Coordinated the development of the current mobile app used to gather data on-field, with graphical risk-map and evacuation routes; and its integration with the core data storage, processing and reporting system.

~100 employees working with the software system for ~1000 buildings.

Head IT Consultant, Verifica.com.ar

2018 — PRESENT

Designed and implemented the different software applications for business management, business operations and automation of the company. Implemented a fully containerized microservice architecture prepared for migration to Kubernetes in the near-future. Led and coordinated the team of software developers at InsigniaDB.com for those tasks.

IT Consultant and Developer, Domus Robotic Faucets

2005 — 2008

IT systems management and web-application development. Network administration. Consultancy, leading development and maintenance for several new and legacy internal and public-facing projects of the company: CRM, task-management, online-selling, BI.

Current website: www.domusrobotica.com.ar.

Assistant Professor, National Technological University (UTN FRBA), Buenos Aires, Argentina

2008 — 2012

Assistant professor for two subjects:

- **Computer Science 1**: C programming, Linux programming
- **Computer Science 2**: C++ programming, embedded programming, GUI programming with Qt

Designed and gave three seminars for professors:

- **UI Software development** using **C++** and **Qt** supporting **Serial Communication** with **Embedded Systems** (2011)
- **UI Software development** using **C++** and **wxWidgets** (2010)
- Using **Windows API for Serial Communication on C++** (2009)

Made the original design and implementation of the R&D project **uModelFactory:** https://www.frba.utn.edu.ar/electronica/umodelfactory-2/

Education

IT courses and self-taught

- PHP, Laravel, JavaScript, TypeScript, Node.JS, React, Material UI, C++, C
- Web technologies: HTML5, CSS (SASS, Less), XML, WebSockets, Service workers
- MySQL, PostgreSQL, MongoDB, Redis
- Docker, Kubernetes, Clouding environments
- Automated testing. Puppeteer, Selenium. Git, CI, CD.
- WordPress integrations. Plugins development.
- IT Security, Reverse-engineering, Penetration testing and White-hat hacking
- Linux, Bash-scripting
- Networking, TCP/IP
- ArcGIS, QGIS
- Vector graphics design (CorelDRAW, Inkscape, SVG)

- 3D modeling and animation (3DSMax, Blender)

Electronics Engineering (4th year), National Technological University (UTN FRBA)

2005 — 2009

Up to 4th year. Then changed to focus completely on IT Systems Engineering.

Specific courses taken and skills acquired or improved:

- C programming
- C++ programming and OOP
- Embedded programming (8051, ARM32, AVR)
- Electronics and hardware design and development

References

References available upon request

Courses

Cambridge English B2 First (FCE), Cambridge University

Cambridge English B1 Preliminary (PET), Cambridge University