MARCO CALDERON

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Education

Cetys University | Ensenada, Baja California *(August 2009 - August 2013)*
B.S. in Electronic Cybernetics Engineering
- **Subjects:** Analog/digital electronics, programming, microcontrollers, automatization

CICESE | Ensenada, Baja California *(August 2013 - February 2016)*
M.Sc. in Computer Science
- **Dissertation:** Incorporating semantic capabilities to the Internet of Things
- **Commitee:** Profs. Jose Antonio Garcia Macias

Experience

Lutely, Full Stack Web Developer, Remote. *(Sep 2023 - Apr 2025)*
- React/Next.js development for e-commerce music platform, optimization and security techniques implementation on current app.
- Backend development on Node.js and Nest.js.
- Unit and E2E testing.
- Database security and optimization.

Loma, Full Stack Web Developer, Remote. *(Sep 2023 - Dec 2023)*
- React/Next.js development for e-commerce platform.
- Backend development on Django/Python3 using Django REST Framework.

Brikl, Front End Developer, Remote. *(Jun 2023 - Aug 2023)*
- React/Next.js development for e-commerce platform.
- Optimization for microservices-based architecture.

EasyShopTracker, Front End Developer, Remote. *(Mar 2022 - Jun 2023)*
- React development for inventory management and service scheduling specialized for automotive businesses.
- One page design implementation.
- React/Next.js development for messaging application.

MarketMapper, Front End Developer, Remote. *(Mar 2023 - May 2023)*
- React development for Crypto analysis platform.
- Connection to data using Firebase.

Grpvyn, Full Stack Web Developer, Remote. *(Apr 2022 - Feb 2023)*
- Backend development using Node.js and Nest.js
- Automation for processes using Playwright tool.
- Linux server configuration and managing SSL certificates.

IT Portal, Front End Web Developer, Remote. *(May 2021 - Dec 2021)*
- Angular development with backend integration.
- Custom Linux configuration and backend analysis to understand API structure.

Matidor, Front End Web Developer, Remote. *(Jan 2021 - Apr 2021)*
- Angular 10+ development with custom design system.
- Create internal web application using Angular for managing clients internally.

Advancio, Lead Full Stack Web Developer, Ensenada, BC. *(Aug 2018 - Oct 2020)*
- .NET Framework and ASP.NET Core development of administrative dashboards that transfers data using SQL Server (T-SQL) and SSIS technologies.
- Onboarding and training of new team members.
- Design and implementation of customized REST APIs.
- Requirements gathering directly with clients for full projects and releases.
- Detailed documentation of the development process for each stage.
- Development of Angular 10, React Web Apps using ASP.NET Core MVC for Back end.

CICESE | IT Department, Lead Java Full Stack Web Developer, Ensenada, BC. *(Feb 2017 - May 2018)*
- Lead of Front end development for warehouse operations systems.
- Full stack Web Development of administrative systems in Java, Spring Framework and REST APIs. Design of database schemas in Oracle.
- Process analyst including code maintaining tasks and documentation. Tool development for administrative systems using C#.

CICESE | Applied Physics Department, Software Developer, Ensenada, BC.   *(Feb 2016 - Feb 2017)*
- Embedded development of Optical Sensors using C/C++ for Linux.
- Performing image processing and compression tasks for a miniaturized satellite (CubeSATs).
- UI/UX of the Earth Station's CubeSAT control.
- Data acquisition and image processing tasks using Qt.
- Web services development for oceanographic metrics implementing automated processes for Data retrieving.

IDES Mexico, Software Developer, Ensenada, BC.   *(Mar 2014 - Mar 2015)*
- Android Mobile App development for Smart House project for management of home electrical consumption.
- Development with ZigBee communication technologies and Contiki Framework using C/C++ and Python.

Softtek, Full Stack Java Web Developer, Ensenada, BC.   *(Jan 2013 - Jun 2013)*

- Java Web Development for management software using MVC pattern.
- Android Mobile Apps development.

Professional Services of Ensenada, Software Developer (Intern), Ensenada, BC.   *(Jan 2011 - Mar 2012)*

- Embedded software development for PLCs and automation oriented systems for local industry.

Technical Skills

- **Languages**: C# (ASP.NET Core, ASP.NET Framework, 2 years), Java (5 years), JavaScript (8 years), TypeScript (6 years), Python (4 years), C, C++ (Qt, Linux), Java (5 years), Lua, Ruby, SQL (10 years)
- **Frontend frameworks:** React (5 years), Next.js (3 years), Angular 10 (2 years), and React Native/Expo (2 years)
- **Backend frameworks**: ASP.NET Core, ASP.NET MVC, NodeJs, ExpressJs, NestJs, Spring, Django; RESTful APIs (development and consumption using GraphQL and simple REST APIs)
- **Databases:** SQL Server (2 years), Oracle SQL (1 year), MySQL (5 years), MariaDB, PostgreSQL (5 years), MongoDB (2 years), Redis (1 year)
- **Cloud technologies:** Vercel (3 years), Netlify (1 years), AWS (2 years), DigitalOcean (1 year)
- **Microsoft tools:** SSIS, Azure, ASP.NET Core, ASP.NET framework MVC
- **Serverless:** Vercel and Netlify with JavaScript Frameworks (Next.js)

Publications

Research Paper: Anxiety detection using wearable monitoring
Jointly authored with Jesús Favela and Darién Miranda. MexIHC '14 Proceedings of the 5th Mexican Conference on Human-Computer Interaction, pp. 34-41. November 2014.
Research Paper: A More Human-centric Internet of Things with Temporal and Spatial Context
Jointly authored with Saúl Delgadillo and Antonio García Macías. Procedia Computer Science Journal Vol. 83, pp. 553-559. May 2016.

Highlight of Accomplishments

- CleanTech Challenge contest at Mexico with COREDOM domotics project. March 2013.
- Accreditation course for Java. October 2008