

# CARLOS EDUARDO MONTI

[carlos.monti@gmail.com](mailto:carlos.monti@gmail.com) · +54 911 5057-4203

<https://www.linkedin.com/in/carlos-monti-34a22284/>

I have a wide range of experience involving IT Services and software engineering. I thoroughly enjoy trying out new things and facing new problems to solve.

## EXPERIENCE

**OCTOBER 2006 – PRESENT DAY**

### **ADVISORY SOFTWARE ENGINEER, IBM**

During my long stay at IBM I've worked across a wide range of products and offerings, both for external clients in the finance and travel industries as well as internal covering our cloud, services, sales and brand organizations.

Some public facing work I've done involves:

#### **SERVICES PLATFORM WITH WATSON** - <https://ibm.co/2X8AG1a>

I worked on splitting a monolithic component of the platform built with Ruby on Rails, EmberJS and IBM Business Process Manager (BPM) into smaller microservices. The microservices implemented a common JSON:API interface for external resources. The component interacted with pluggable automation providers ranging from custom shell scripts, Chef recipes, IPcenter automatas, and so on. I implemented a Ruby DSL (Domain Specific Language) to dynamically configure available content from these providers.

#### **DECISION ADVISOR** - <https://ibm.co/2X1YBL1>

I architected this application that helps our sellers co-create and make decisions with clients on IT Services offerings and implemented the core algorithms that drive the decision-making process and market price estimations. It's built on a MERN stack using GraphQL as the underlying query language between its components.

#### **CARBON DESIGN SYSTEM** - <http://bit.ly/2X2UQ7R>

I'm a contributor to the React version of the Carbon Design System components.

#### **VAULT** - <https://ibm.co/2FCdloy>

I created one of the challenges for Lock 6 of this recruitment campaign.

#### **WATSON DEVELOPER CLOUD** - <https://ibm.co/2IINN0a>

I created tech demos for both C-suite client audiences and the general public using a Nao robot and the WDC services. Local media coverage: <http://bit.ly/2LgVTyX> - <http://bit.ly/2WZRIPL>

On the non-public side I worked on a Kanban board/Management system mashup used by the IBM Services organization. Built with Ruby on Rails, Redis, PostgreSQL and VueJS and consuming data from third party Incident/Problem/Change (IPC) systems such as ServiceNow, Remedy or Maximo among others.

I've worked on IoT projects from our lab, rapid-prototyping with a 3D printer, Arduino, RPi and the matching electronics.

Through the IBM Ambassadors program, I've helped out with IBM's offerings at trade shows, job fairs, community events and universities.

All software I've worked on is hosted either in GitHub Enterprise or GitLab, built and deployed using IBM Cloud DevOps toolchains, TravisCI, or Jenkins+IBM UrbanCode deploy, unit tested with the preferred tool du-jour for the language and integration tested with Cypress, TestCafe or Cucumber and delivered using the Agile methodologies that suit the project.

Other work I've done at IBM involved dealing with DB2, WebSphere Application Server, WebSphere MQ, Tivoli, z/OS ISPF, Oracle Database and Oracle Directory Server, BeyondTrust PowerBroker on top of large herds of AIX, Linux and Solaris systems.

#### **MARCH 2005 – OCTOBER 2006**

##### **SOFTWARE DEVELOPER, CYCLELOGIC**

I developed mostly backbone components such as an SMPP gateway and message broker using Delphi, an SMPP/RADIUS proxy for billing using Python/BerkeleyDB, content distribution APIs using ASP/SQL Server, and supporting internal or client-facing dashboards using PHP.

I also worked on some consumer-facing products such as SMS-based games and services using Ruby on Rails or Python/PostgreSQL and our platform's APIs, a marketplace application in C for Qualcomm Brew handsets and live TV show video compositing using Delphi/SQL Server and a Matrox card's SDI output.

#### **JULY 2004 – FEBRUARY 2005**

##### **SOFTWARE DEVELOPER, DIRECCIÓN NACIONAL DE MIGRACIONES**

I built an SDK to handle mechanical document/passport readers, fingerprint scanners, video camera devices and card ID printers to be leveraged by the software development department. The SDK was used on the border control and personnel applications of the organization where I worked on the integration tasks as well.

I worked on the project of Executive Order 1169/2004 to regularize the migratory situation of illegal aliens within the country by creating desktop software using Delphi/Oracle and the LAMP stack.

I created software to sync up access control lists across geographically spread border posts with connectivity varying between dial-up modem lines, fiber or wireless networks.

#### **NOVEMBER 2002 – JUNE 2003**

##### **SOFTWARE DEVELOPER, CYBERSPACE REALITY**

I worked on creating management tools using the LAMP stack for our web hosting and e-mail services, as well as using Perl for automating infrastructure maintenance.