

Juan Manuel Combetto

Senior Software Engineer

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PROFILE

Technology leader with experience in applications/API development, proof of concepts, technical design, documentation, creative solutions, and workflow design.

I have a strong passion for Software Engineering with over ten years of work experience. And ten more years before start working, building websites and computers since I was a child.

I'm always reading and researching about the industry, looking at what's coming next.

I've never stopped self-updating, my passion led me to have a formal academic education.

Worked on prestigious brands, such as:

- The 20th Century FOX (Movies)
- Disney
- FOX Broadcasting Company (TV)

Working with me you can expect autonomy and good judgment, quality, and consistent results.

TOOLS & TECHNOLOGIES

Back-End Tools: Laravel, Ruby on Rails, NodeJS, Express, Gorilla/Mux, TomCat.

Front End Tools: Vue, ReactJS, Angular, jQuery, Twig, Mustache, Web Components.

Languages: Javascript, PHP, Python, TypeScript, Ruby, Go, Java, CSS.

Computer Science & Software Development: API Design, Object Oriented Programming, Design Patterns (GoF), Software Architecture, Data-Structures, SOLID (Clean Code), Agile, XP.

Testing: Test Driven Development, Code Coverage, various frameworks, Chrome Puppeteer.

Distributed systems: Containerization Technologies (Docker, LXC), Orchestration (Kubernetes), Storage (S3, MinIO, OpenEBS, LongHorn), Traefik, Prometheus, Grafana, Serverless (AWS Lambda).

Databases: SQL (MySQL, PostgreSQL, Oracle (+PL/SQL)), NoSQL (MongoDB, etcd, Firebase, RxDB), ORM (ActiveRecord, Hibernate).

Distributed Ledger Technologies: UXTO vs Account based, Web3, Ganesh, RAFT

EDUCATION

Universidad de Palermo — Computer Scientist and Engineer (BS-MS) 2006-2011

The 5-year program in Computer Science combines two degrees: a B.S. in Computer Science with an M.S. (with thesis) in Computer Science. *This university is ACM International Collegiate Programming Contest 2004 Latin American champion. Best in Argentina*

EXPERIENCE

Senior Software Engineer, The Walt Disney Company — 2019-2020

- Seamless migrated in 6 months FOX properties (Movies and TV shows) into Disney systems.
Including, media, localization, dates, talents, cast & crew, SKUs, socials, and other metadata. (PHP, Ruby, SQL, MongoDB)
- Implemented new features for the CMS. (Ruby/Javascript)
- Video migrations (video compression pipeline and database knowledge graph) and integrations. (Python)
- Found optimization opportunities in API response times: delivered major speed gains (up to 43 % on average). Impacts the whole DTCTI department:
 - impacts every consumer Disney site on the front end.
 - 250%+ load time speed up in some sections of the CMS(Ruby/MongoDB)
 - The company invited to present the improvements in a multi department online-event.

Technologies: Javascript (Angular), Python, Ruby, PHP, CSS, Kubernetes on GCP, Docker, SQL and NoSQL databases.

Technical Lead - Senior Software Developer 20th Century Fox — 2015-2019

- Building (software develop) and supporting 20th Century FOX international consumer portal in 19 business regions (36 countries).
 - Key Multi million dollar project, that encompass many areas of the studio, such as, home entertainment and theatrical.
 - Reported directly to the executive director and SVP of marketing.
 - Movie life-cycle automations integrating many internal systems. This alone reduced human work massively (90%+), less people needed in general.
 - Dealt with localization challenges, integrated with each territory using custom solutions, maintaining high availability and high scalability.
There is a record explosive growth when, each country needs localized assets in each language. Synopsis, retail vendors, SKU information, change per location, per language.
 - Develop creative and innovative solutions close in touch with the business needs.
 - Complete end-to-end from technical design, implementation, testing to delivery lifecycle.
 - Oversaw and made pushes to production.
 - Drove the adoption of code quality metrics and automated static code analysis, as well mentoring and leadership.
 - Responsible of the technical direction of the project, finding new automation opportunities, as well as the hands on implementation.
 - Designed an implemented an API used in external websites and iOS Apps.
- Technologies:** PHP, (Laravel, Yii), Javascript (jQuery, Vue, React, NodeJS), CSS (Bootstrap). MySQL, a custom caching solution based of memcached, ElasticSearch, OKTA

ACHIEVEMENTS:

- **GDPR Compliance:** when the studio and its properties (5000+ websites) had to be GDPR compliant, I found a way to automate the way we check for cookies and other elements. Even when the Director's plan was to divide the task amount the members of the team.

Identified high paid manual work as wasted resources, and got management buy-in to change to a better system. Subsequently investigated alternatives, decided on Chrome Puppeteer. This move allowed to finish faster, with less mistakes and without painful (and expensive) human labor. This speed up the process from a month to days.

Saved at least 1300 hours of work, about \$81600.

After the praise on my efforts, I was given the formal OK to make a CMS that will handle all cookie banners and policies for every 20th Century FOX site, in many languages.

Technologies: NodeJS, Chrome Puppeteer. | CMS: PyroCMS

- **Avatar: Discover Pandora:** successfully launched an exhibition, in 3 regions, including Taiwan, China and Thailand.
Made the software that run the kiosks in the exhibition and its social component, this included handling PII and navigating the stringent local laws, specially hard in China. The backend that measure metrics and future re-engagements plans where custom built for the Digital Marketing team, both on location (GES)and in the headquarters (FOX).

Technologies: Laravel, React, Javascript, LoginRadius

Senior Web Engineer, Fox Broadcasting Company – 2013-2015

Working on fox.com, The X-Factor USA (~7 M weekly viewers), American Idol (15+ M weekly viewers) sites.

Building high performance sites with high peaks on traffic, on a tight timeframe bi-weekly releases on new code.

Following the highest quality standards (SOLID principles, SCRUM, among others) while providing innovate responsive sites that millions of people would rely (voting) and enjoy using.

- Implemented online voting for American Idol and The X-Factor. Combined (150M+ votes).
- Managing role getting in contact with the producers to get faster solutions and working together to get it implemented.
- Getting reports from a remote, global 10 team members (Australia, Poland, Brazil, The Caribbean, Argentina, USA) and forward to the on-site leadership team in Los Angeles.
- Understanding the business so see if is beneficial and if is still relevant.
- Proactive optimization and constant improvement and code quality (code linters, automatic fixes, and very important: git pre-commit hook) leadership/mentoring. Improvements to up to a 100%, by cutting the data needed for each call and even higher returns after adding a memcached cache layer.
- Implemented Authentication solutions for FOX/FX/NatGeo including the first implementation of Apple TV and Roku as well as managing Xbox One, Xbox360, Samsung Smart TV.

- Made tools for other team members to use.
- Found a way to engage the developer team by asking the TV Producers if they could make a video with the cast and artists with some words for us. Got Fifth harmony, Alex and Sierra, and many others, thanking “devs”.
This was a highlight for the remote team.

Technologies/Tools: PHP, Javascript, SCSS, LESS, Twig, nodejs, expressJS, grunt, modernizr, requireJS, REST, JSON, SQL, jQuery, thePlatform (MPX), Adobe Pass (MVPD Auth), Gigya, LiveFyre StreamHub, Mass Relevance, Akamai CDN, Alfresco, Omniture SiteCatalyst, GitHub, Atlassian Products (Jira, Confluence, BitBucket)

SIDE PROJECTS:

HomeLab:

I built and run a home lab with 3 computer nodes where I test the latest technologies, including many cloud native projects, such as: Kubernetes (k3s, microk8s, Rancher, Services Mesh (Instio), minio, MetalLB, OpenEBS, Traefik, Prometheus, Grafana.

Also: Docker, Portainer and others.

I use this as a learning platform in the areas I'm interested but I can't use at my day-to-day work.

Home Automation, Internet of Things, Solar and Power Usage Tracking:

Worked on my own home automation project using what I had and researching for enhancements, ideas to implement.

Some of the technologies used: AiSEG reverse-engineering, ZigBee, MQTT, home assistant, InfluxDB + Grafana, docker, watchtower, mysql, Micro-controllers: ESP32, Bluetooth low energy beacons, Actions on Google + DialogFlow.

Presented to Panasonic in the Fujisawa Sustainable Smart Town, with great praise from the company, even after telling them I had to reverse engineer their systems to integrate with what I wrote.

RECOMMENDATIONS ARE ON MY LINKEDIN PROFILE

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