

Roberto Reyes Fragoso

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Work Experience

UNAM

México City, México

FULL STACK DEVELOPER

May 2020 - Current

- Created a module to track user's behaviour of 72 psychology experiments using javascript performance API and browser cookies.
- Built a batch processing algorithm in python to handle all the collected data in the backend to reduce unnecessary calls to the database.

Microsoft

Redmond, Washington

SOFTWARE ENGINEER INTERN

June 2019 - August 2019

- Created a recommendation notification pipeline for notifying service owners about potential optimizations in their azure subscription.
- Ensured the recommendation emails met Microsoft Accessibility standards, the emails were available to all users regardless of any disabilities.
- Proposed and implemented a branch strategy that allowed to streamline the build and releases by 50%.

IPN

México City, México

FULL STACK DEVELOPER

January 2018 - May 2019

- Improved the creation of online learning resources for the economy department by using an algorithm that creates vuejs websites from the professor's notes instead of coding new sites manually, reducing the publication time of new content from months to minutes.

Punto Catorce

México City, México

FRONTEND DEVELOPER

November 2014 - December 2014

- Designed and coded the company's frontend, media queries and css prefixers used to correctly display the content in mobile/desktop devices.
- Implemented good SEO practices such meta tags and semantic HTML to ranked the site at the top 10 results in search engines.

Punto Catorce

México City, México

UX/UI DESIGNER

August 2014 - October 2014

- Decreased the app screens from 30 to 25 in collaboration with the design team to create an easier workflow in the app.
- Resolved the inconsistency of the latest native visual elements by replacing the old android design guidelines with material design.

Punto Catorce

México City, México

ANDROID DEVELOPER

September 2013 - July 2014

- Developed frontend and backend modules for Android devices to communicate the different endpoints of the company's server with the app.

Awards & Leadership

Nutria

México City, México

TECHNICAL DIRECTOR, MENTOR & FULL STACK DEVELOPER

June 2020 - Current

- Created the architecture design, implementation, testing and deployment needs to satisfy project's requirements and costs.
- Made a reviewer micro service to be able to spot common mistakes in resumes, allowing to the system to speed up the feedback to the user.

IPN

México City, México

ORGANIZER & TEACHER

August 2019 - June 2020

- Collaborated with university's algorithm club to teach about data structures & algorithms, with over +70 active members each semester.

MX Hacks IV

México City, México

HACKATON PARTICIPANT & FULL STACK DEVELOPER

November 2016

- Winner of 2nd place & AWS category with an artificial intelligence to recommend recipes using photos of the food inside the fridge.

Projects

Major Thesis

- Proposed a new algorithm to facilitates the ocular health professional the diagnose of possible cases of diabetic retinopathy using image analysis and pattern recognition techniques applied to retinal images by creating an analysis of the imaged under 3 seconds and working across different data sets.

Education

July 2020 **Instituto Politécnico Nacional** - System Engineering, GPA: 9.13/10.0

México City, México

June 2015 **Dev.f** - Django backend dev & iOS mobile dev

México City, México

Relevant Coursework

Udacity

- Computability, Complexity & Algorithms
- Data Structures & Algorithms in Python
- Design Patterns in Object Oriented Programming
- Software Architecture Patterns
- Introduction to Azure Applications
- Scalable Microservices with Kubernetes
- Introduction to Machine Learning
- Spark
- Amazon Data Integration Specialist

Skills

Advanced • Python • Git • Photoshop, Illustrator

Proficient • Rust, C# • Android (Java & Kotlin) • Postgresql, Mysql, GraphQL • HTML5, CSS3, Javascript, Django, Django REST, React, Vue

Beginner • Haskell, Bash, Common Lisp • Azure, Amazon Web Services • Docker, Kubernetes, Travis, Firebase