

# Alejandro Madariaga Angeles

## EDUCATION

### Universidad Autónoma de Querétaro, México — Software Engineering

2015 - Present

- Expected graduation: December 2020
- GPA 3.0 (8.9 in Mexico's scale)
- Member of "Trojanos Development Center"

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Linked in: [Link](#)

Querétaro, México

## PROFESSIONAL EXPERIENCE

### PIC GENUS, Customer Order Portal — FrontEnd

2018- 2019

- Developed customer module and logistics module for genetic material orders. For PIC, work that took days, is now done in hours (**React.js, Redux, Webpack**)
- Sole developer on the frontend with i18n support for Spanish and English
- Worked directly with PIC's US IT team, as well as end users in Mexico (**English**)

### Tmobile, Internet of Things Web Platform — FullStack

2016- Present

- Developed data reception web services for Sigfox and SMS, ice and gas vendors using the platform now track sales and consumption in real time (**Django, Node.js, Python**)
- Developed real time data visualisations with i18n support (**React.js, Redux, Socket.io, Canvas, Google Maps API**)
- Developed CRUD for devices and users with i18n support (**Django, React.js, Webpack**)

### Constructora Chufani, Suppliers Portal — FullStack

2014- 2015

- Developed invoice status reports for Chufani's suppliers, chufani had ~3,000 suppliers, all constantly calling and asking for updates on their invoices (**PHP, JS, HTML, CSS**)
- Developed financial reports, e.g. an interactive cash flow table that can expand and contract rows and columns to reveal more detail in time and category. These reports used to take days to assemble, now take seconds (**PHP, JS, HTML, CSS**)

### Full portafolio link

## SKILLS

### Experienced

JavaScript

React.js

Python

Django

Jest.js

GIT

Linux, SSH

### Working knowledge

PLSQL

Node.js

HTML

CSS

### Previous Exposure

TensorFlow

Java

Swift

## LANGUAGES

English (Advanced)

Spanish (Native)

## OPEN SOURCE CONTRIBUTIONS

### webpack/webpack — [#7102](#)

Fix bug where sometimes the runtime chunk would not be present on output

I added the preventIntegration property to the Chunk Class, and use it in the runtimeChunkPlugin, added integration tests

WebPack has 8 million weekly downloads on npm

### gpbl/react-day-picker — [#939](#)

Fix DayPickerInput value does not recompute on locale change

Fixed by checking for changes in locale related props in componentDidUpdate

### typicode/hotel — [#131](#)

Fix: Click on chevron won't open log, in safari

Safari would not propagate the click event from a label to a nested radio button, so i changed it to a span

## PROJECTS

### Visual Math Parser — [link](#)

- Developed the prefix math parser of expressions like  $((4.3+1)*5)+4*3-(2*5)) - 14$ , using binary trees, fully unit tested (**JS, Jest**)
- Developed the interactive visualisation that shows how the tree is constructed and evaluated (**D3.js**)

### Nepohualtzintzin — [link](#)

- An interactive web version of the mayan abacus
- Developed along with my friend Diego Mancilla
- I developed the model that transforms integers to the abacus state and viceversa, using a greedy algorithm, unit tested (**JS, Jest**)