

# JUAN ARTURO CRUZ CARDONA



## PERSONAL INFORMATION

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Email: [arturocrzc@gmail.com](mailto:arturocrzc@gmail.com)

Mobile: +52 442 346 5705

LinkedIn Account: <https://www.linkedin.com/in/juan-arturo-cruz-cardona-a611451b8/>

Online Portfolio: <https://alanespartan.github.io/Arturo-CV-Online/> or Scan QR

## EDUCATION

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**Monterrey Institute of Technology and Higher Education**

Graduating in December 2021

*Bachelor's Degree in Computer Science and Technology*

GPA: 3.5

## WORK EXPERIENCE

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### **Freelance Software Developer**

Querétaro, Santiago de Querétaro. México

*Web and Mobile Developer*

May 2020 – February 2021

Software solutions developed using technologies like Firebase, Angular 6, React Js, MongoDB, Docker as well as concepts for project management.

- [Nok](#)
  - Helped to oversee the process of developing the frontend and backend of functionalities like sending invitations by sms and email, generation of QR codes for access and creation of logs and reports.
- [Perfil COVID-19](#)
  - Project for the early detection of COVID19 as well as the monitoring of patients.
  - Handled most of the front-end development of the project.

### **Natgas México**

Querétaro, Santiago de Querétaro. México

*Software Engineer Trainee*

November 2019 – March 2020

[Software solution](#) developed using technologies like Cloud Firestore, GraphQL, Angular 10, Apollo Link and Ionic as well as Disciplined Agile Delivery and Capability Maturity Model Integration for project management.

### **Consolidation of a Department of Information Technologies**

Tecnológico de Monterrey Campus Querétaro

*Software Engineer Trainee*

August 2019 – December 2019

Development of software solutions for "International Foods Control" and "Rescate 1 Querétaro" using technologies such as Django, React Native and PostgreSQL.

Usage of software engineering processes based on Disciplined Agile Delivery, Capability Maturity Model Integration and PMBOK.

Different roles performed during iterations such as Product Owner (mainly), Architecture Owner and Team Member.

### **Bitamina Digital**

Querétaro, Santiago de Querétaro. México

*Web Developer*

April 2019 - August 2019

Established a new work scheme focused on reducing the work hours the development team should work to finish the projects using Scrum as the main methodology and different technologies such as Git and GitLab.

Usage of technologies such as PHP, MySQL, HTML5, CSS3 and JavaScript to develop and maintain various projects, ranging from static web pages to administrative sites.

### **Knauf México**

Querétaro, Santa Rosa Jáuregui. México

*Warehouse General Assistant*

June 2017 - August 2017

Generate reports of equipment tools and updating of excel databases.

## MAJOR PROJECTS

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### Multithreading Video Game

February 2020 – June 2020

*Java – Final Class Project*

<https://alanespartan.github.io/Arturo-CV-Online/projects/multithread.html>

Use of socket programming to connect multiple instances of the video game (clients), then those send information to a listener socket (server) in a particular port and finally returns new information for all other sockets.

In addition, multiple design patterns were used to handle the rendering, creation of objects, sounds and logic to give the user a better experience.

### Reinforcement Learning StarCraft 2 Agent

August 2020 – December 2020

*Python – Class Project*

<https://alanespartan.github.io/Arturo-CV-Online/projects/starcraft2.html>

Build a Smart Terran Agent capable of learning to develop a better strategy over time through a reward system based on the actions it tooks and the state resulting from those.

It uses the psyc2 library to handle all the setup of the video game and as core of the machine learning it uses a Q-Learning Table to save the state of the actions the agent took, to give him a way to analyze and decide which action should be done next.

### Gallery

August 2020 – December 2020

*3D Video game on Unity – Final Class Project*

<https://alanespartan.github.io/Arturo-CV-Online/projects/gallery.html>

Video game inspired by PT Silent Hill with the intent of generating a visual experience with a certain degree of suspense through the manipulation of events within the game, such as: repetition of scenarios, interaction with objects on the stage, random changes of lights, aleatory movement of objects and sound manipulation.

Free assets from the community were used to focus on the development of the code of all the events in game.

### Deep Learning Chatbot Agent

May 2021 – June 2021

*Python, Keras and NLTK – Class Project*

<https://alanespartan.github.io/Arturo-CV-Online/projects/chatbot.html>

A Chatbot capable of responding messages after learning certain patterns the user can introduce and the answer for these. It does not create its own answer, but it chooses randomly.

## SKILLS

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### PROGRAMMING LANGUAGES

1 year: JavaScript, TypeScript  
6 months: Java, Python, PhP  
3 months: C, C++, C#

### LANGUAGE SKILLS

Spanish: Native  
English: 70% - Linguaskill Business B2

### TECHNOLOGIES

MySQL, PostgreSQL, MongoDB, Git, GitLab, GitHub,  
Bootstrap 4, Django, GraphQL, Google Cloud Firestore,  
Firebase, Angular, Ionic, React Js, HTML 5, CSS, JQuery,  
Office

### ONLINE CERTIFICATIONS

Professional Web Design (Udemy, 2020)  
High-Impact Business Writing (Coursera, 2021)  
Python for advanced data scientist (LinkedIn, 2021)

## RECOMMENDATIONS

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- [Ricardo Yáñez Alva, Bitamina Digital CEO](#)
- [Monterrey Institute of Technology and Higher Education Teachers](#)