

Juan Pablo Montoya

Software Engineering Student

Employment History

Incoming Intern at Cisco Systems

June 2021 — August 2021

Software Engineering Internship

Intern at Strategix4, Hermosillo

June 2020 — Present

Research and Development Intern

Developed and Implemented scalable Computer Vision algorithms for multi camera crowd analysis, including face recognition, body part detection, and custom object tracking. Applied OCR and Super resolution algorithms for text extraction. I used: Python with Tensorflow, open CV, pytesseract, and Keras.

Founder and CEO at BSN Technologies, Hermosillo

October 2019 — Present

Founded an AI startup that developed a Healthcare Platform that provides physicians AI based tools for medical imaging analysis. Used ReactJS and AWS Cloud Services for the platform, Pytorch, and Tensorflow.

Freelance Data Analyst at Flor Ayala, Local Congresswoman, Hermosillo

August 2017 — June 2018

Used Machine Learning in historical electoral data for trend analysis. Used Scikit learn, pandas, matplotlib and seaborn.

Education

B.S Software Engineering, Tecnológico De Monterrey, Hermosillo

August 2020 — June 2024

GPA: 99.52 / 100

Skills

Data Science: Python: Tensorflow, Keras, Pytorch, Scikit Learn, Pandas, Seaborn, Matplotlib, Flask, Django

Web: HTML, CSS, and JavaScript: ReactJs, MaterialUI, Bootstrap, CornerstoneJS, JQuery, Node.JS, ExpressJs, SocketIO, Go, Python, MongoDB, Mysql

Other: Docker, Unity, C#, React Native, Android Studio (Java), AWS Lambda, Dynamodb, Amplify, S3, Git, Github, Heroku, Unreal Engine 4, C++

Awards

Winner of the Entrepreneurship Scholarship Award 2020 at Tecnológico de Monterrey:

Given to the best 30 out of 1200 tech startups founded by students before College. Received the award for my startup BSN Technologies, which develops AI to improve medical diagnosis.

Second Place at National Entrepreneurship Competition Inc Prototype (2020)

Think Award (3rd Place) at National First Tech Challenge (2020)

Inspire Award (1st place) Regional First Tech Challenge (2019)

Participant in Collision Alpha:

I presented my startup at a massive Tech conference called Collision Conference in Toronto, Canada.

Details

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Links

[Github](#): JuanPabloMontoya271

[Website](#) www.bsn-technologies.com

[Linkedin](#):

[juan-pablo-montoya-estevez](#)

Spanish (Native)

English (Fluent)

German (Fluent)

French (Medium)

Side Projects:

BSN Medical Vision:

Web Platform that allows physicians to manage medical files and view medical images on the Cloud. It is based on the Cornerstone JS framework, and it reads and stores Dicom files and uses AI models to aid in the diagnosis.

Medical Image Segmentation and

Classification: Implemented Deep Learning algorithms to solve Medical segmentation and Classification tasks..

Pydatastructures: Open Source project which seeks to create a friendly, well maintained, and easy to use data structures library on python.

PyGradCam: Open Source project which seeks to create an easy to use GradCam Library.

SmartBox: Modular device that connects multiple home smart appliances (developed by us) to your smartphone..

Freelance and Collaborations:

+Sangre: Collaboration with a non profit organization which develops a platform to improve the process of

Participant in National Science Fair (2018):

Presented a smart home appliance project in La Paz, Baja California Sur.

blood donations by connecting donors with receptors.

Electoral Analytics 2021: Freelance project, in which I help to implement statistical models to manage campaign resources based on electoral trends.