

# Miguel Ángel Ortiz Marín

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## PROFILE

A motivated and dedicated student with great problem solving, software engineering, systems building and AI skills. Entrepreneurial and innovative with interests in projects with a social impact. Interested in aerospace engineering and competitive programming.

## EDUCATION

### Universidad Nacional de Colombia

B.Sc. Computing and Systems Engineering

Expected graduation: June 2021

Cumulative GPA: 4.5 / 5.0

Honors: Top 15 GPA (2016, freshman year)

## WORK EXPERIENCE

### Universidad Nacional de Colombia, MindLab

Undergraduate Research and Teaching Assistant.

May 2019 - present | Bogotá, Colombia

- Implemented a centralized authentication and dataset storage system for machine learning research with [Jupyterhub](#), Docker, LDAP and NFS. This system is used by around 15 researchers.
- Created materials and tasks for several machine Learning courses.
- Wrote a static [site](#) using GatsbyJS.

## SKILLS

### Programming languages:

Java, C++, Python, Javascript, Go	Advanced
Cuda, Bash, Typescript, Dart	Intermediate

### Frameworks and technologies:

AWS ● GCE ● Firebase ● Unix ● Docker ●  
Kubernetes ● Rancher ● React/Native ● Flutter  
● PostgreSQL ● MongoDB ● Tensorflow ●  
Keras ● Pytorch ● Agile (scrum)

### Soft skills

teamwork ● leadership ● creative ● goal  
oriented ● effective communicator ● fast learner

### LANGUAGES:

B2 English ● B1 German ● Beginner Japanese

## SCHOOL PROJECTS

### WashUp | [Github](#)

04/2020 - present | Bogotá, Colombia

- Built Flutter and Firebase prototype.
- Implemented hand gesture classification models in Pytorch with 97% accuracy on Kaggle [dataset](#).

### τ rus | [Github](#)

8/2019 - 12/2019 | Bogotá, Colombia

- Online multiplayer game of escaping procedurally generated mazes.
- **Lead Architect in a five-man group.**
- Built [PWA](#) in React/Redux and Typescript.
- Implemented [game server](#) and [load balancer](#) in Go. [API gateway](#) using Typescript and Apollo.
- Handled deployment to AWS using Terraform and Rancher Kubernetes .

### SIE: Low cost intelligent irrigation system

06/2018 - 05/2019 | Bogotá and Menlo Park, CA

- Built ML models to predict the right moment to irrigate crops based on sensors and farmers knowledge with high accuracy.
- **Marconi Society 2019 Celestini Program Colombian representatives. Attended Young scholar symposium in Stanford and dinner and award gala.**

### Javascript Autocompletion

02/2019 - 05/2019 | Bogotá, Colombia

- Used recurrent neural networks and abstract syntax trees in Tensorflow.

### Deem-AI | [Github](#)

11/2018 - 02/2019 | Bogotá, Colombia

- Startup focused on crowd counting for market analysis and segmentation.
- Wrote state of the art report and [demo](#) in Python and Keras. Built a static [landing page](#) in React and deployed to AWS.
- Completed [Apps.co](#) startup accelerator and learned various business techniques.

### Competitive Programming

- Won first place from 111 teams at 2018 ACM-ICPC nation-wide competition.
- Handle mia\_ortizma in codeforces.