

# Manuel Felipe Pineda Loaiza | CV

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## Education

### Universidad Tecnológica de Pereira

*Electrical Engineering MSc.*

Expected graduation: December 2018

Risaralda - Colombia

2016-present

### Universidad Tecnológica de Pereira

*BSc in Computer Science, GPA: 4.3 / 5*

March 2016

Risaralda - Colombia

2010-2016

### Selected Coursework.....

- **Computer Science:** Databases · Data Structures and Algorithms · Numerical Analysis · Operating Systems · Formal grammars and languages · Compilers · Computer Architecture · Distributed systems · Client Server architecture · Artificial intelligence.
- **Mathematics:** Multivariable Calculus · Linear Algebra · Discrete Math · Physics · Statistics · Operations Research

## Experience

### Vocational.....

#### Sirius Research Group

*Web developer*

Developer of backend services for SMaps<sup>1</sup> using **nodejs** and **ZeroMQ**.

Developer of frontend services for SMaps using **Openlayers 3** and **javascript**.

Risaralda - Colombia

2014-Present

#### Universidad Tecnológica de Pereira

*Web developer*

Developer of UTP online judge.

Risaralda - Colombia

2013-2014

#### Universidad Tecnológica de Pereira

*Tutor*

Data structures tutor.

Risaralda - Colombia

2011-2014

#### Universidad Tecnológica de Pereira

*Tutor*

Mathematics tutor.

Risaralda - Colombia

2010-2011

<sup>1</sup><http://maps.utp.edu.co/>

## Achievements

- Best ranked colombian at the **Google Code Jam 2016**.<sup>1</sup>
- Third place. XXIX Maraton Nacional de Programacion ACIS REDIS, Colombia. 2015
- Honorable mention. **ACM - ICPC World Finals**. Yekaterinburg, Russia. 2014

- Second place. Second UNAH Programming Cup. La Habana, Cuba. 2014
  - Second place. ACM ICPC South America-North Regional Contest. Bogotá, Colombia. 2013
  - First place. Fourth Internal Programming Contest. Universidad Tecnológica de Pereira, Colombia. 2013
- <sup>1</sup><https://www.go-hero.net/jam/16/regions/Colombia>

## Complementary studies

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- Programming Contest Training Camp Argentina, seventh edition, Universidad Nacional del Comahue, Neuquén, Argentina, July, 2016
- Programming Contest Training Camp Argentina, sixth edition, Universidad Nacional del Sur, Bahía Blanca, Argentina, July, 2015
- Super and Distributed Computing Summer Camp, BIOS Centro de Bioinformática Y Biología Computacional, Manizales, Colombia, August, 2014
- V Caribbean Programming Contest Training Camp, Universidad de Ciencias Informáticas, La Habana, Cuba, May, 2014

## Personal Projects

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- Co-organizer of PereiraJS, javascript community in Pereira. <sup>1</sup>
- Developer of UTPJudge v1, ACM-ICPC-based judge for programming assignments and local training at Universidad Tecnológica de Pereira. <sup>2</sup>
- Peer-to-peer file sharing project based on bittorrent, using C++ and ZeroMQ. <sup>3</sup>
- GPLib, Gaussian Processes library, using C++ and Armadillo. <sup>4</sup>
- All my open source projects can be found at my GitHub profile. <sup>5</sup>

## Interests - Hobbies

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**Competitive Programming:** Five years (2011 - present) training in algorithms and math for ACM-ICPC competitions.

## Languages

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**Spanish:** Native

**English:** Good

**French:** Basic

## Computer skills

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|--|---|
| <b>1:</b> C/C++ Programming (preferred language)                   | <b>4:</b> Proficient with Git             |
| <b>2:</b> Experience in web development with nodejs and javascript | <b>5:</b> Basic skills in HTML and CSS.   |
| <b>3:</b> Proficient with GNU/Linux                                | <b>6:</b> Familiar with non-sql databases |

<sup>1</sup><http://pereirajs.org>

<sup>2</sup><https://github.com/in-silico/utpjude-old>

<sup>3</sup><https://github.com/pin3da/totient>

<sup>4</sup><https://github.com/pin3da/gplib>

<sup>5</sup><https://github.com/pin3da/>

## References

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### Contacts

- Santiago Gutierrez, software engineer at Google. Email: santjuan@google.com
- Sebastián Gómez González, PhD candidate, Max Planck Institute, Email: sebasutp@gmail.com
- Diego Alejandro Agudelo España, MSc student, Universidad Tecnológica de Pereira, Email: aleagues@gmail.com