

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 ¹ using **nodejs** and **ZeroMQ**.

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

Risaralda - Colombia

2014–2016

Universidad Tecnológica de Pereira

Web developer

Developer of UTP online judge.

Risaralda - Colombia

2013–2014

Universidad Tecnológica de Pereira

Tutor

Mathematics and data structures tutor.

Risaralda - Colombia

2010–2014

¹<http://maps.utp.edu.co/>

Achievements

- Only colombian who advanced to the round 2 of the **Distributed Google Code Jam 2017** (top 500). ²
- Best ranked colombian at the **Google Code Jam 2016**. ¹

- 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

¹<https://www.go-hero.net/jam/16/regions/Colombia>

²<https://code.google.com/codejam/contest/8314486/scoreboard#sp=481>, handle: ManuelPineda

Complementary studies

- 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

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

Interests - Hobbies

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

Languages

Spanish: Native

English: Good

French: Basic

¹<http://pereirajs.org>

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

³<https://github.com/pin3da/totient>

⁴<https://github.com/pin3da/gplib>

⁵<https://github.com/pin3da/>

Computer skills

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

References

Contacts

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