María Catalina Castro Arias

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Education

Universidad Tecnológica de Pereira — **Risaralda - Colombia**
Ingeniería de Sistemas y Computación, — *2014 – present*
Expected graduation: December 2019

Work Experience

Teacher Assistant at the Programming I and II courses — **Risaralda - Colombia**
Universidad Tecnológica de Pereira, www.utp.edu.co — *2014 – 2016*
Detailed achievements: **Helping to improve student learning and skills**

- Accompaniment to students in programming I - Functional Programming (Scheme)
- Accompaniment to students in programming II - Imperative Programming (C ++)

Web Developer — **Risaralda - Colombia**
Universidad Tecnológica de Pereira, www.utp.edu.co — *2016 – present*
Part-time job as web developer in the section of computer and educational resources (CRIE), administering the web pages of the University.
Detailed achievements:

- Implementation and design of web applications using **HTML, CSS, PHP (Frameworks), JavaScript and Python.**
- Implementation of responsive views, improving the visualization on devices of small screen with **Bootstrap**

Achievements

- **First place,** VII Internal Programming Contest. Universidad Tecnológica de Pereira, Colombia. 2016
- **Speaker at the Workshop** Arduino with Johnny-Five (JavaScript Robotics and IoT Platform) at the Universidad de Caldas, Manizales 2017
- **Speaker at the Workshop** Arduino with Johnny-Five (JavaScript Robotics and IoT Platform) from the web using express, nodejs and socket.io at the Universidad Tecnológica de Pereira 2017
- **Scholarship to Attend Latinity 2018,** Latin American Women in Technology, Bogotá, Colombia

Complementary Studies

- **PHP Web and Database training**, Vive Digital, ViveLab Pereira 2015
- **Machine Learning Course**, Coursera, Stanford University - Andrew Ng. 2017
- **Assistance to Google Cloud Day - Google Cloud Platform: Bootcamp** Bogotá, Colombia. Introduction to Machine Learning with TensorFlow and Cloud ML Engine. 2018

Personal Projects and Interests

- **Blind Chess**: Virtual chess for people with vision impairment. (In Progress)
  Detailed achievements:
  - Implementation of a **Neural Network** for voice recognition.
  - Implementation of the **Fast Fourier Transform** to do signal processing.
  - Implementation of the **Minimax algorithm** to perform the best moves.
- Member of the **Joint Developer** research group
  - A community aimed to increases the women's interest for technology by generating spaces that promote their participation on this field.