Esteban Foronda Sierra

1 Personal Data

Place and Date of Birth:	Colombia	November 2nd 1994
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Github:	https://github.com/EstebanFS

2 Interests / Hobbies

Coding, Teaching, Programming Challenges, Competitive Programming Contests, Learning new things, Science.

3 Education

Current studies:	Systems Engineering, Computer Science
University:	**EAFIT University**(Medellin, Colombia)
Graduation date:	2012-2016 (Expected)
Current Cumulative (GPA):	4.39(5.0 scale)
Organizations:	Competitive Programming Seminar.

4 Skills and Tools

- Proficient with **Algorithmic thinking and problem solving.**
- Most experience using: **C++, Java (Desktop and Android).**
- Moderate experience with database programming and design using: *SQL*.
- Moderate experience with web programming and design using: *HTML, JavaScipt*.
- Moderate experience with continuous integration using: *Jenkins*.
- Moderate experience with code quality analyzers using: *SonarQube*.
- Basic experience with Functional Testing using: *Calabash*
- Basic experience with mobile programming and design using: *iOS with Swift*.
- Basic experience with web programming and design using: *Ruby on Rails*.
- Basic experience with unit tests using: *JUnit*.
- Basic experience with distributed computing using: *MPI*.

- Tools I feel comfortable with: **Git Version Control, Atom text editor, SVN Version Control.**

- Operating Systems: **Windows, Ubuntu, Mac OS.**

- Learning for university projects: **Assembler.**

5 Work Experience

2015 - PRESENT	Part Mobile Development Area at Ceiba Software.

1. **EMI - Health Software:** My main work on that was to fix features in both Mobile and Back-End, in order to improve response time, add customer value, reduce mobile battery consumption, improve data storage, centralize data by consuming and creating web services.
   - **Mobile Technology:** Titanium - Appcelerator, Android version.
   - **Back-End:** Java.
   - **Front-End:** JSP.
2. **Intern Projects:** Mainly I created components that make easier to mix technologies or work with some specific ones, for example make the development in Xamarin Studio easier. I also worked creating a generic component in Android that could be used for each application and help to make the development faster.
   - **Mobile Technologies:** Android, Xamarin.
   - **WebServices:** SprintBoot.
   - **Desktop:** Shell Scripting.
3. **Rapicredit:** Currently I'm working with Rapicredit, an application that works with credits, I've been working focused in Back-End, trying to optimize some critical features in the application like response time, users interactions, cleaning DB, using MySQL DB and not H2 DB for WSO2, etc. For this task I've been working with Back-End components like LDAP, WSO2 and using some programming languages like C++ and Java to make that task easier and automatic.
   - **Mobile technology:** Android.
   - **Back-End** Java, Sprint, LDAP, WSO2, Nginx.

2013 - 2014	Part Mobile Development Team of Duing Application

Duing is a social application for mobile devices. My team developed the Android native application for Duing, I focused mainly in consume data from Web Services and management of mobile databases. I had to be really careful, because that application save a lot of user data so aspects like memory, energy and time were really important, all of this based in the UX principles, I also worked with graphic interface.

6 Projects

1. **Programming Lab**: Software developed in C++ that receive a series of tasks descriptions in YAML format and a series of pipes that connect some specific jobs. The software will try to execute the connected jobs and it will show if the task could be completed along with its result, doing

the same task as if you run the command `echo hello world | wc &` in the shell.

2. **Nower**: Application to recommend special offers based in the user location, the final user(Buyer) application was created in Android, Client (Stores) was created with HTML5 and Javascript with AngularJs and the BackEnd was created with Ruby on Rails.

3. **Numerical**: An Android application in order to interpret numerical functions and evaluate them with different numerical methods learned in the subject Numerical Methods.

4. **Graphics**: Java desktop application with different graphics methods to represent objects and change his properties(scale, rotate, etc).

5. **CoffeeStart**: CoffeeShop Cashier Application developed in Assembler.

6. **CloudYa**: A Web Image Hosting Application developed in HTML5, CSS3, JavaScript and PHP.

7. **A queue manager for Android** That is, request turns by mobile.

8. **Checkers**: Game of Checkers created with Java using Max/Min algorithm.

9. **BlackJack**: Game of BlackJack created with Java.

10. **NOTE**: You can find some of those projects on my Github! https://github.com/EstebanFS

7 Languages

SPANISH: Native (Colombia)
ENGLISH: Advanced

8 Extra-Curricular Activities

- **Competitive Programming Seminar - EAFIT University**
  Lecturer Assistant
  January 2014 - Present
  I am one of the `Competitive Programming Seminar` coordinators in EAFIT University. My work is to explain and teach some topics, problems, and solutions. Those topics include graphs, dynamic programming, ad hoc solutions, greedy algorithms, etc, in order to help university teams to improve theirs abilities in a real programming contests.
  Also I help introducing new people at programming world.

- **Course "Data Structures and Algorithms II" - EAFIT University**
  Teacher Assistant:
  January 2015 - June 2015 (Six Months)
  I was the teacher assistant in the course "Data structures and algorithms II", my main aim was to help students to understand many algorithms

and topics, explain why those topics are really important in the design of algorithms and how to pass theory into practice. Topics include graphs and their algorithms, complexity, search of patterns, basic dynamic programming, optimization, etc.

9 Extra-Curricular Courses

- **Data Structures and Algorithms - Coursera Specialization**

    - **Algorithmic Toolbox**
      State: Completed
      Chosen Programming Language: C++

    - **Data Structures**
      State: Completed
      Chosen Programming Language: C++

    - **Algorithms on Graphs**
      State: Completed
      Chosen Programming Language: C++

    - **Algorithms on Strings**
      State: Completed
      Chosen Programming Language: C++
      In progress

    - **Assembling Genomes and Finding Disease-Causing Mutations - Final Project**
      In progress

    - You can find more information about this course in the following link : Data Structures And Algorithms Specialization

- **Certified Scrum Developer (CSD)**
  State: Completed
  Dates: September 2015 - September 2017
  Certification Authority: Scrum Alliance

- **Developing Android Apps - Udacity**
  State: Free version completed

    - **Views**

    - **Operating System**

    - **Use of Web Services**

– **Data Storage**

- You can find those certificates on my **Linkedin** https://www.linkedin.com/in/esteban-foronda-sierra-217446b2

10 Contests

- Participated at the 2012 Colombian Programming Contest ACIS REDIS.
- Participated at the 2014 Colombian Programming Contest ACIS REDIS.
- Participated at the 2015 Colombian Programming Contest ACIS REDIS.
- Participated at the 2016 Colombian Programming Contest ACIS REDIS.
- Participated at the ACM-ICPC South American-North Regionals, November 2014.
- Participated at the ACM-ICPC South American-North Regionals, November 2015.
- Participant at the ACM-ICPC South American-North Regionals, November 2016.
- Participated in the Google Code Jam 2013, 2014, 2015 and 2016.
- Participated in the Facebook Hacker Cup 2015.
- Participated in several test contest made by local organizers.
- Solving different kind of algorithmic problems in several online judges, such as UVa, Codeforces, COJ. handle each Judge: **EstebanFS**.
- You can find some of those solutions in Competitive Programming repository on my Github! https://github.com/EstebanFS/Competitive-Programming

11 Achievements - School

- **Best Graduation Project, Neosistemas 2011**:
  I won with "Puzzle", a Contable Software, based in the problem of a little company.
- **Distincted Graduates, Neosistemas, 2011**
  Distinction with honors among graduates of my year