Esteban Foronda Sierra

1 Personal Data

Place and Date of Birth:	Colombia | November 2nd 1994
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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**(Medellín, Colombia)
Graduation date:	2012-2016
Current Cumulative (GPA):	4.40(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).**
- Most experience using: **Git version control.**
- Most experience using: **Scrum** like **Agile Methodology.**
- Moderate experience with database programming and design using: *SQL*.
- Moderate experience with web programming and design using: *HTML, CSS and JavaScipt*.
- Moderate experience with *Continuous Integration* and *Code Quality* using: *Jenkins and SonarQube*.
- Moderate experience with testing using *JUnit, Karma*
- Moderate experience with Back-End programming using *Scala*
- Basic experience with Front-End programming and design using: *Angular*.
- Basic experience with web programming and design using: *Ruby on Rails*.

- Basic experience with Functional Testing using: **Calabash and Espresso android.**
- Basic experience with mobile programming and design using: **iOS with Swift**.
- Basic experience with distributed computing using: **MPI**.
- Basic experience creating **Rest Web Services** using **Spring.**
- Operating Systems: **Windows, Ubuntu, Mac OS.**
- Learning for university projects: **Assembler.**

5 Work Experience

2017 - PRESENT	Sotware Developer at Seven4N.

New Core Insurance, I've been working in both sides, Back-End and Front-End, Improving integrations with other platforms, response time and creating new features, also I've been working on Scripts that **take care of code quality and testing, reducing de number of errors in the platform.** Also I was able to improve the **time complexity** of some critical algorithms, **reducing their times from hours to minutes.**

- **Back-End:** Scala
- **Front-End:** Angular
- **Scripting:** Shell Scripting and Git hooks.

2015 - 2016	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 and centralize data by consuming and creating web services. **I was able to reduce the numbers of errors produced by management of data in around 90%**
   - **Mobile Technology:** Titanium - Appcelerator Android version.
   - **Back-End:** Java.
   - **Front-End:** JSP.

2. **Intern Projects:** Mainly I created generic components that make easier to mix technologies or work with some specific ones in order to improve development time.
   - **Mobile Technologies:** Android, Xamarin.
   - **WebServices:** SprintBoot.
   - **Desktop:** Shell Scripting.

3. **Rapicredit:** I've been working focused in Back-End and Front-End, trying to optimize some critical features in the application like response time, users interactions and cleaning DB. For this task I've been working with Back-End components like **LDAP and WSO2**, also using some others programming languages like **C++ and Java** to create automated tasks. **I was able to clean the current database in around 40,000 registries with an automatic task created with C++ and Java.**
   - **Mobile technology:** Android.
   - **Back-End** Java, Sprint, LDAP, WSO2.
   - **Front-End** JSP, CSS, HTML.

2013 - 2014	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 but also I 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 terminal for example.

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, Javascript and AngularJs** and the BackEnd was created with **Ruby on Rails.**

3. **Numerical**: An **Android** application that 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. **A queue manager for Android** That helps to request turns with your cell phone.

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

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

9. **NOTE**: You can find some of those projects on my **Github!**

7 Languages

SPANISH: Native (Colombia)
ENGLISH: Advanced.

8 Extra-Curricular Activities

- **Competitive Programming Seminar - EAFIT University**
  Lecturer Assistant
  January 2014 - Present
  I am the `Competitive Programming Seminar` coordinator in EAFIT University. My work is to explain and teach some topics, problems, and solutions. Those topics include graphs, dynamic programming, ad hoc problems, 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)
  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,

complexity, search of patterns, 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++
    - **Advanced Algorithms and Complexity**
      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
    - You can find more information about this course in the following link **Developing Android Apps**
- You can find those certificates on my **Linkedin**

10 Contests

- **Fifth Place** at the 2016 Colombian Programming Contest ACIS REDIS.
- **Tenth Place** at the 2015 Colombian Programming Contest ACIS REDIS.
- **Tenth Place** at the 2014 Colombian Programming Contest ACIS REDIS.
- **Thirty-Forth Place** at the 2012 Colombian Programming Contest ACIS REDIS.
- **Fourteenth Place** at the ACM-ICPC South American-North Regionals, November 2016.
- **Eleventh Place** at the ACM-ICPC South American-North Regionals, November 2015.
- **Twentieth Place** at the ACM-ICPC South American-North Regionals, November 2014.
- Participated in the **Google Code Jam** 2013, 2014, 2015, 2016 and 2017.
- 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** and **HackerRank.**, etc. User for each Judge: **EstebanFS**.
- You can find some of those solutions in Competitive Programming repository on my **Github!**

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