

# Esteban FORONDA SIERRA

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Colombia | November 2nd 1994  
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GITHUB: <https://github.com/EstebanFS>

## INTERESTS / HOBBIES

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Coding, Teaching, Programming Challenges, Competitive Programming Contests, designing mobile applications, learning new programming languages, Searching about science

## EDUCATION

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### Current studies:

System engineering ,Computer Science  
**EAFIT University**(Medellin, Colombia)  
2012-2016 (Expected)

### Current Cumulative (GPA):

4.31(5.0 scale)

### Computer Science Subjects:

Programming Fundamentals.  
Principles of software development.  
Programming languages.  
Data structure and algorithms I and II.  
Databases.  
Digital Electronics and Circuits, Digital Logic and Microcontrollers.  
Formal languages and compilers.  
Software engineering.  
Technology Integration Project I  
Systemic thinking, Information systems.  
Telematics.  
Computer Graphics.  
Computer Architecture.  
Numerical Methods.  
Special Topics in Telematics.  
Technology Integration Project II  
Special Topics in Software Development.  
Special Topics in Information Systems.  
Operating Systems

### Mathematics Subjects:

Calculus.  
Predicate and boolean logic.  
Discrete mathematics, Linear algebra.  
Statistics.  
Quantitative Methods.  
Physics.

### Organizations:

Competitive Programming Seminar.

## SKILLS AND TOOLS

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- Proficient with algorithmic thinking and problem solving
- Most experience using: C++, Java (Desktop and Android),
- Moderate experience with database programming and design using: *MySQL*
- Moderate experience with web programming and design using: *HTML5, JavaScript*.
- Moderate experience with mobile programming and design using: *Ios with Swift*.
- Basic experience with web programming and design using: *PHP, Ruby on Rails*.
- Basic experience with continuous integration using: *Jenkins*.
- Basic experience with unit tests using: *Junit, AndroidTestCase, XCTest*.
- Basic experience with distributed computing using: *MPI*.
- Tools I feel comfortable with: Git Version Control, Sublime Text, SVN Version Control.
- Operating Systems: Windows, Xubuntu, Mac OS.
- Learning for university projects: Assembler.

## WORK EXPERIENCE

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2013 - 2014	<p>Part Mobile Development Team of Duing App</p> <p>I was part of the Development of Duing App, Duing is a social application for mobile devices. My team developed the Android native application for Duing, which required knowledge for development of Android applications, focusing in obtain data from Web Services, management of databases and a little part of the graphic interface. Now Duing change some aspects, and it is called Reportt. <i>This application is in process to be published in Google Play Store.</i></p> <p><u>Approximate contribution: 85% of the Android application.</u></p>
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## PROJECTS

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1. **BlackJack:** Game of BlackJack created with Java.
2. **Checkers:** Game of Checkers created with Java using Max/Min algorithm.
3. **FilaFacil:** A queue manager for Android, that is, request turns by mobile.
4. **CloudYa:** A Web Image Hosting Application developed in HTML5, CSS3, JavaScript and PHP.
5. **CoffeeStart:** CoffeeShop Cashier Application developed in Assembler.
6. **Numerical:** An Android application in order to interpret numerical functions and evaluate them with different numerical methods learned in the subject Numerical Methods.
7. **Graphics:** Java desktop app with different graphics methods to represent objects and change his properties(scale, rotate, etc).
8. **Nower:** App to recommend special offers based in the user location, the final user(Buyer) app was created in Android, Client (Stores) was created with HTML5 and Javascript with AngularJs and the BackEnd was created with Ruby on Rails.
9. **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 or not, doing the same task as if you run for example "echo hello world | c &".
10. **NOTE:** You can find some of those projects on my Github! <https://github.com/EstebanFS>

## LANGUAGES

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SPANISH: Native (Colombia)  
ENGLISH: Advanced

## EXTRA-CURRICULAR ACTIVITIES

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- **Course "Data structures and algorithm II" - EAFIT University**

Teacher Assistant:

I am the teacher assistant in the course "Data structures and algorithms II", my main aim is 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.

- **Competitive Programming Seminar - EAFIT University**

Lecturer Assistant:

I help in Competitive Programming Seminar in EAFIT University, explaining and teaching some topics, problems, and solutions, to introduce new people at programming world. Also I teach about competitive programming, algorithms and how to apply this algorithms in a real programming contests. Design and write of some simple problems to teach about basic structures and algorithms.

## CONTESTS

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- Participated at the 2012 Colombian Programming Contest ACIS REDIS.
- Participated at the 2014 Colombian Programming Contest ACIS REDIS.
- Participant of the ACM-ICPC South American-North Regionals, November 2014.
- Participated in the Google Code Jam 2013, 2014 and 2015.
- Participated in the Facebook Hacker Cup 2015.
- Participated in several test contest made by CCPL and RPC.
- Solving different kind of algorithmic problems in several online judges, such as, UVa, Codeforces, TopCoder, COJ. handle each Judge except TopCoder: EstebanFS handle TopCoder:estebanf01

## ACHIEVEMENTS - SCHOOL

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