

Santiago Vanegas Gil

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Birth: January 13th, 1995

Medellín, Antioquia, Colombia

INTERESTS Problem solving, coding, competitive programming contests, teaching, write and propose easy programming problems, web development, design and develop mobile applications, aviation.

SUMMARY Back end, mobile and web developer with experience designing, developing and deploying applications using Ruby, Ruby on Rails, Android, AngularJS, and Docker.

I have competed in Competitive Programming Contests, ranging from local practice contests to South America finals. Furthermore, I have lectured the EAFIT's Competitive Programming Seminar since January 2014.

I always concentrate on the quality of the products I work on, and strive to follow the best practices and guidelines while developing. I always try to learn from my teammates, I like to research and learn about tools, frameworks, new languages and algorithms that will help me to get a better performance in the development process.

EXPERIENCE AND PROJECTS **Android Developer - Mobile Software Engineer at ISF de Colombia**

March 2016 - Now (6 months)

Designing, developing and supporting **Android** applications following good practices as MVP pattern, Material Design, unit and functional testing. Learning about common powerful libraries as RxJava, Retrofit, Realm.

- **CE Broker**

March 2016 - Now (6 months)

CE Broker is a tool that helps some regulating agencies in the US to track the continued education certifications for some professions that are required to maintain and renew a certificate in order to continue working. Improving and supporting current **Android** version.

- **EverCheck Wallet**

April 2016 - Now (5 months)

EverCheck Wallet is an Application for the digital update of Heart Card certifications of the American Heart Association. Developing the current **Android** version.

- **EverCheck**

August 2016 - Now (less than one month)

EverCheck allows to manage license compliance from anywhere, is a leading nationwide solution for automated, continuous monitoring of healthcare licenses. It fulfills the Primary Source verification requirements set forth by The Joint Commission, DNV Healthcare, and HFAP. Developing the current **Android** version.

Web Developer - Software Engineer at Talos Digital, Inc.

January 2016 - March 2016 (2 months)

Developed applications in multiple technologies, such as **Ruby on Rails** in the back end and **AngularJS**, Less and Sass in the front end, automating tasks using **GruntJS** and **Gulp.js**, building applications using Docker basics.

- **Flare App**

January 2016 - March 2016 (2 months)

Flare is a project which allows people to report incidents such as ambiental and medical issues to the zone they are. Zones are defined by admins of accounts. The project is developed using Laravel Framework and **AngularJS**.

Software Engineering Intern at Talos Digital, Inc.

July 2015 - January 2016 (6 months)

Full-stack developer. Working in micro-services back end in **Ruby on Rails**, using **Grape** framework. Started learning and developing front end applications using **AngularJS**, HTML and CSS.

- **TaskFlex**

August 2015 - December 2015 (5 months)

TaskFlex is an open-source project and reverse auction platform wich allows Owners to post and manage their jobs and Taskers to apply for different job offers. It allows to handle almost any service you want. The heavy logic about users and jobs is delegated to TDJobs and TDUser microservices. TaskFlex is built using **AngularJS** and Less.js.

- **TDJobs**

July 2015 - November 2015 (5 months)

Marketplace process abstraction API, built with **Ruby on Rails** and **Grape** on Docker, to handle jobs supply & demand logic for applications with a business model like that of Task Rabbit or UpWork.

Teacher Assistant in Data Structures and Algorithms II at Universidad EAFIT

January 2015 - June 2015 (6 months)

Teaching data structures as maps, sets, trees; and common Computer Science algorithms for Graphs, Dynamic Programming, Pattern Searching and Ad Hoc solutions.

Mobile Devices Developer at IdeasLab

July 2013 - June 2014 (1 year)

Duing was a social application for mobile devices. My team and I developed the **Android** native application for this platform, that required knowledge for development graphic components and obtaning data from Web Services.

University projects at Universidad EAFIT

January 2012 - July 2015

- **Nower:** is a platform that allows mobile users to find promotions that several stores near to them may offer. Those promotions are presented according to the users interests and wishes and the particularity is that they would expire in a short period or even run out of stock really fast. That is so because the idea is to offer access to exclusive promos. *We (my university team) started*

developing this idea in 2015-1, and we are currently developing a new version of this project.

- Simple games developed in **Java**.
- A queue manager for **Android**, that is, request turns and being notified by mobile.
- A Web Image Hosting Application developed in HTML5, CSS3, JavaScript and PHP.
- CoffeeShop Cashier Application developed in Assembler.
- Several *Coding Dojos* using Ionic Framework for **AngularJS**.
- Programming Labs developed in **C++** in order to understand specific Operating Systems concepts.

Check them out in my github! <https://github.com/svanegas>

EDUCATION

Universidad EAFIT

January 2012 - (Expected) December 2016

Bachelor of Applied Science (BASc), Computer Science (Systems Engineering)

Grade: GPA: 4.53 out of 5.0

- **Computer Science subjects:** Programming Fundamentals, Principles of Software Development, Programming Languages, Data Structures and Algorithms 1 and 2, Databases, Digital Electronics and Circuits, Digital Logic and Microcontrollers, Formal Languages and Compilers, Software Engineering, Technology Integration Project 1 and 2, Systemic Thinking, Computer Networks, Information Systems, Computer Graphics, Computer Architecture, Numerical Methods, Special Topics in Computer Networks, Operating Systems, Special Topics in Software Engineering, Programming Paradigms.
- **Mathematics subjects:** Calculus, Predicate and Boolean Logic, Linear Algebra, Discrete Maths, Statistics, Quantitative Methods.
- **Organizations:** Competitive Programming Seminar, Mobile Devices Development Seminar.

INFORMATICS KNOWLEDGE

Proficient with algorithmic thinking and problem solving.

Most experience and preferred language: **C++**.

Advanced experience with: **Java** (Desktop and **Android**), **Ruby**, **Ruby on Rails**.

Moderate experience with web programming and design using: **HTML5**, **AngularJS**.

Automating tasks using: **GruntJS**, **Gulp.js**.

Creating images and deploying containers using: **Docker**.

Basic experience with database design and usage: **MySQL**, **PostgreSQL**.

Learned basics for university projects: **Assembler**.

Versioning and tools: **Git**, **Atom**, **L^AT_EX**.

Familiarity with operating Systems: **Linux**, **OS X**.

Working on a team following: **Scrum**.

EXTRA-CURRICULAR / VOLUNTEER EXPERIENCE

Competitive Programming Seminar Student Coordinator at Universidad EAFIT

Lecturer and student coordinator

January 2014 - Now (2 years 8 months)

Coordinating students and teaching several Computer Science topics involved in Competitive Programming Contests, such as **Dynamic Programming**, Greedy Algorithms, Pattern Matching; and data structures like **Maps, Sets, Graphs**, Queues, Heaps. I manage our virtual judge for internal contests. (We use BOCA Online Judge).

Mobile Devices Development Seminar at Universidad EAFIT

Member

January 2015 - July 2015 (6 months)

I joined this seminar because I really like developing for mobile devices, specially for **Android**. In this seminar we created applications from good ideas that could help students in their life. I've been through two projects in this group.

- **Campus Móvil:** This application allowed EAFIT University students to easily locate buildings and important places inside the campus.
- **Exams:** *(Not completed yet)* The idea was to have a data base of previous exams of a particular subject. User could upload a picture of his own exam (share it), and search for exams by subject name, teacher name and other parameters.

HONORS AND AWARDS

Participated at the XXVI Colombian Programming Contest

ACIS REDIS

October, 2012

This was my very first programming contest, my team could not advance to next round.

10th place, XXVIII Colombian Programming Contest

ACIS REDIS

September, 2014

In my second national programming contest, we got the tenth place, advancing to South America-North finals.

20th place, South America - North Regional Programing Contest

ACM-ICPC

November, 2014

In my first South America-North finals we got the twentieth place, we didn't advance to World Finals.

10th place, XXIX Colombian Programming Contest

ACIS REDIS

September, 2015

This was my third national programming contest, we've got the tenth place, advancing to South America-North finals again.

11th place, South America - North Regional Programming Contest

ACM-ICPC

November, 2015

In my second regional final we could advance nine places, getting the eleventh place. We needed to get the first, second or maybe third to advance to the World Finals.

5th place, XXX Colombian Programming Contest

ACIS REDIS

September, 2016

Fourth and last national programming contest, we've got the fifth place, advancing

to our last South America-North finals.

Participant of national competitive programming organizations and online judges

Colombian Collegiate Programming League & Red de Programación Competitiva,
Google Code Jam, UVa, Codeforces, SPOJ

January 2012 - Now

Handle: *svanegas*

LANGUAGES

Spanish: Native.

English: Advanced.