

Engineer. Juan Carlos Romero, MGSI

Nationality: Colombian

Current residency: Guatemala City, Guatemala

jcromero0323@gmail.com

Electronic and Telecommunications Engineer, with a master's degree in IT Management.

A leader with outstanding abilities in software project management, a high sense of responsibility, and good skills providing efficient solutions to problems, in continuous training, obtaining new knowledge and skills. With more than ten years of experience in developing web-based informatics solutions and mobile apps, with a particular interest in health research, data science, mobile applications, and systems development.

WORK EXPERIENCE

Chief of Information Technology and Data Management

Universidad Del Valle de Guatemala, Center for Health Studies

September 2016 – Present

Guatemala, Guatemala City

- Coordination and management of different research projects IT personnel at the Centre for Health Studies.
- Created and developed a web system and a mobile app for COVID-19 cases detection and tracing among Universidad Del Valle de Guatemala students and personnel.
- Developed real-time interactive dashboards for data visualization using R-Shiny and R-scripts to analyze and clean data collected by different projects conducted at the Center for Health Studies. - Managed the design of the Sexually Transmitted Infections (STI) surveillance system for Central America.
- Developed a web-based system to notify recent HIV infections to the Guatemala and Honduras Ministries of Health.
- Created a mobile app to report Influenza-like illness (ILI) symptoms among participants of the study “Participatory ILI Surveillance System in Guatemala, using SMS”.
- Design of databases to store data on research study participants at the Center for Health Studies - Prepare and execute the annual budget of the information technology unit (USD \$100.000 – USD \$180.000).

University instructor (January 2020 – July 2020) **January 2021 – Present** *Universidad Del Valle de Guatemala, Faculty of Engineering* *Guatemala, Guatemala City*

- Algorithms and basic programming.

Chief of Information Technology

Universidad Del Valle de Guatemala, Influenza Program

February 2013 – September 2016

Guatemala, Ciudad de Guatemala

- Coordinated IT Unit technical activities of the Influenza Program.
- Developed mobile-based systems to collect data for different health studies in conducted in Guatemala, El Salvador, and Panama.
- Adapted OpenClinica-based system for data collection and clinical data management of a clinical trial conducted in El Salvador and Panama.

Web and Mobile Technologies Consultant

COMISCA, Council of Ministers of Health of Central America

January 2012 – February 2013

Guatemala and Panama

- Developed mobile-based system to collect data for influenza sentinel surveillance in Panama and Guatemala.

Web and Mobile Technologies Consultant

TEPHINET

October 2011 – January 2012

Guatemala, Guatemala City

- Designed the requirements for a mobile app to collect influenza surveillance data to be managed at the central level health information systems in Guatemala and Panama.

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Software Development Engineer

Domoti SAS

June 2011 – October 2011

Bogota, Colombia

- Developed mobile-based app for Symbian Operative System. (Nokia S40 y Symbian Anna y Belle).

Software Development Engineer

Netcom S.A

June 2009 – June 2011

Bogota, Colombia

- Developed systems for the banking sector using Mobile Applications with GPS, http connections, Web Service-wsdl, web-based applications with: JSP, Servlets and databases: Oracle and SQL server.

HONORS AND WARDS

Popular Choice Award Ford Challenge 2013 Here we Go - Online challenge

October 2013, International

- Java Android - Google Maps, OpenXC Platform Ford. <http://tinyurl.com/HereWeGoFord>

1st Award - BID and Microsoft hackathon

January 2013, Guatemala

- Web system and mobile android app for people to report acts of violence.

1st Runner Up NAVTEQ Challenge. I Love Recycle NeuroX Solutions.

May 2010, Brazil -

J2ME, GPS,

NAVTEQ Maps, PHP and MySQL.

Classification to the second round of the Contest Imagine CUP Microsoft/UN – Game Design May 2010, International

- Windows game, XNA Game Studio, C# .Net and Blender.

3rd Runner Up NAVTEQ Global LBS Challenge Americas - App ToGetThere.

June 2009, United States -

J2ME, GPS, NAVTEQ Maps, PHP and MySQL.

1st Winner 5th marathon of developers - Comcel (Claro)-Nokia – App NeuroX Earth October 2008, Colombia

- J2ME with 3D, GPS, Google Maps, PHP and Mysql.

Winner 1st Runner up - Catholic University of Colombia - Electrocardiogram (ECG) Colombia -

June 2010,

Electronic, J2ME, Java, Bluetooth, SMS and MYSQL.

EDUCATION

Master in Data Science (MDS)

Galileo University of Guatemala

2021 - Current

Ciudad de Guatemala, Guatemala

Master in IT Management (MGSI)

Rafael Landívar University of Guatemala

2015

Ciudad de Guatemala, Guatemala

Electronic and Telecommunication Engineer

Catholic University of Colombia

2011

Bogota, Colombia

High School

Center Hernando Duran Dussan

2005

Bogota, Colombia

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COURSES

The Data Scientist's Toolbox	2020
<i>Coursera.org - Johns Hopkins University</i>	<i>Online</i>
Geomatics applied to health	2019
<i>Instituto Gulich, CONAE, Nacional University of Córdoba (Argentina)</i>	<i>Online</i>
Data Science: R Basics 2019 <i>edx.org- HarvardX: PH125.1x</i>	<i>Online</i>
Workshop-management of data in clinical trials	2016
<i>CIDEIM-Centro Internacional de Entrenamiento e Investigaciones Médicas</i>	<i>Cali, Colombia</i>
Workshop-Management Firewall Fortinet 2014 <i>INTELITEC</i>	<i>Ciudad de Guatemala, Guatemala</i>
Workshop-Workshop on the development of mobile devices using Android	2010
<i>Samsung</i>	<i>Bogota, Colombia</i>
Workshop-2D Animation Workshop with XNA Game Studio	2010
<i>Microsoft Colombia</i>	<i>Bogota, Colombia</i>

SPECIALIZED SKILLS

Administrative skills

- Budget.
- Financial analysis.
- Cash flow.
- Java for Android
- Ionic Framework
- Xcode – IOS

Databases

- Phone.
- Oracle 10g
- SqlServer 2010
- Postgres.
- QT for Symbian, J2ME - Mysql
- C# for Windows
- **Software Development**
- JAVA J2EE, J2SE JSP, JSF, Primefaces, Servlets.
- C# ASP .NET.

Servers

- Windows server
- Linux, Centos
- HTML5, JQuery, PHP, JavaScript
- **Data Analysis**
- WebServices, SOAP, WSDL, Clients WebServices

Collect Data

- ODK (OpenDataKit) – Aggregate - Build
- Redcap – Redcap Server
- Openclinica.
- Python / Pandas / NumPy
- R (Markdown, Shiny)
- R server , Shiny Server
- STATA statistical package.
- QGIS

Language

- Spanish (native language)
- Unity 3D, Blender
- Tableau
- Data warehouse
- English (Intermediate)
- **Other:**