

Curriculum vitae: Julian Uran

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Objective Master level Computer Engineer with experience on software development, R&D and IT systems administration.
Looking for technology oriented careers at companies with great ideas and people.

Highlights

2015 **Lead developer** at Bemovil SAS, Pereira, Risaralda, Colombia. Currently deploying **brand new backbone** for **nationwide** mobile carrier related micro-transactions.

2014 Graduate Research Assistant as lead developer at Global Computing Lab (GCLab), University of Delaware.

2014 Research and Development Engineer at CIFI (Faculty of Engineering Research Center), University of Los Andes. Designed bottleneck-solving solution for **nationwide** earthquake mapping web portal, **going from 50** concurrent users per second to **10K+**.

2014 **Master's Degree**, Systems and Computer Engineering at University of Los Andes, Colombia. Ranked fifth in Latin America's top universities.

2011-2014 System Administrator at University of Los Andes, Colombia: troubleshooted tier 2 and 3 requests while managing virtual IT infrastructure with **700+** VMware virtual machines.

2012 **Bachelor's Degree**, Systems and Computer Engineering at Technological University of Pereira, Colombia.

Key Skills

Programming Able to implement functional and reusable code in any of the following languages: C/C++, Java, PHP, Python, Matlab, Fortran, Bash scripting, while also being capable of learning and prototyping with new technologies in a short amount of time.

Web development Previous projects include responsive web apps using HTML, CSS, Javascript, Bootstrap/Foundation and Django. Currently experimenting with AngularJS.

Cloud computing Hands on experience with Amazon, Microsoft, and open source clouds and technologies. Being able to design and implement high availability and performance solutions for heavy loaded systems by using Linux and cloud options such as NGiNX and AWS. Implemented custom self-service portal using web-oriented technologies for in-house VMware clouds.

Virtualization VMWare ESX administrator for more than 700 VMs running 24/7 over two fibre channel SANs, data loss free even after technical equipment failures (recovered data from physically damaged disks by using forensic equipment).

Networking	Proficient with CISCO, 3Com and Brocade networking equipment. Able to troubleshoot SAN, NAS, iSCSI, fibre channel, routing, switching, traffic shaping, access control lists, IPTables, and network throughput issues.
Language skills	Fluent in English (C1), Spanish (Native), and undergoing French classes (A2).

Work History

Aug 15– Today	System Analyst / Research and Development Engineer at Veritran, an Argentine mobile banking app developer company. Currently implementing new backbone features and improving current ones. Supervisor: Pablo Ronco (pronco@veritran.net), CTO.
Feb 15– Today	Lead developer at Bemovil S.A.S., Pereira, Risaralda, Colombia. Responsibilities include designing and implementing software applications for nationwide level mobile carrier related micro-transactions. A completely new backbone was implemented using RESTful web services, Python and Django. Supervisor: David Betancur Vallejo (dbetancur@bemovil.net), CTO.
Jun 14–Nov 14	Graduate Research Assistant at Global Computing Lab (GCLab), University of Delaware: implemented, modified and tested tools for researching computationally efficient algorithms and adaptive scheduling policies for scientific computing on GPUs and clouds. Supervisor: Dr. Michela Taufer (taufer@udel.edu), Professor.
Nov 13–Sep 14	Engineer at the Universidad de los Andes, Colombia: Nationwide Customer Support Manager of SPADIES, a Colombian Ministry of National Education system that uses data gathered by higher education institutions to minimize students dropping out indexes. Successfully optimized customer support operation to appropriately comply with contract defined SLAs and improved customer satisfaction by solving support requests in a matter of hours instead of days for 350 Colombian Universities and institutions using the system. Supervisor: Fabio Sanchez (fasanche@uniandes.edu.co), Professor.
Aug 11–Feb 14	Graduate Assistant / System Administrator at Universidad de los Andes, Colombia: troubleshooted tier 2 and 3 requests while developing, maintaining, designing, and managing web services, software, servers, databases, information systems, and virtual IT infrastructure. Designed and implementing data center optimizations that led to performance and user experience improvements (30%, based on network throughput and data IO stats) on the overall cloud computing environment. Supervisor: Juan D. Jimenez (jujimene@uniandes.edu.co), IT Coordinator.
Feb 10–Aug 11	System Administrator at Universidad Tecnológica de Pereira, Colombia: network and servers administrator at Sirius HPC Lab, Systems and Computer Science Department. Supervisor: Jose A. Jaramillo (jj@sirius.utp.edu.co), Professor.
May 10–Dec 10	Technical Intern / IT Engineer at IntercoNet Ltd, Colombia: network infras-

tructure, data center, servers, and services administrator of mid and big sized companies in the Colombian Andean region. In charge of GNU/Linux based solutions, highly-available systems, high-performance Internet implementations, and level 1-2 support.

Supervisor: David Betancur Vallejo (david@interco.net.co), CTO.

Feb 07—Aug 11 Computer Technician at Universidad Tecnológica de Pereira, Colombia: software and hardware maintainer of the overall student-focused computer equipment of the Technological University of Pereira. Near 600 personal computers managed via a central Active Directory server.

Supervisor: Lyda C. Pulgarin (lcp@utp.edu.co), IT Coordinator.

Feb 07—Nov 08 Junior System administrator at Universidad Tecnológica de Pereira, Colombia. Maintainer of OpenSource projects, mailing lists, web servers, mail servers, database servers, and version control systems.

Supervisor: Dr. John A. Guerra (aguerra@utp.edu.co), Professor.

Academic Qualifications

Mar 14 Master's Degree, Systems and Computer Engineering at the University of Los Andes, Colombia. Emphasis in computer networks, distributed systems, and parallel computing.

Aug 12 Bachelor's Degree, Systems and Computer Engineering at the Technological University of Pereira, Colombia. Emphasis in data networks design and administration, mathematical problem-solving, and electronic systems design.

Teaching Assistant Experience (TA)

2013-II Sem Worked along senior staff to help fulfill course related activities, such as IT incident management exercises for the CSIRT (Computer Security Incident Response Team) and Incident Management (MSIN-4203) in the Master of Information Security program.

Professor: Juan D. Jimenez (jujimene@uniandes.edu.co), Systems Engineering and Computer Science Department, Universidad de los Andes, Bogotá DC, Colombia.

2013-I Sem Information Technology Infrastructure Architecture (ARTI-4203) in Master of Information Technology Architecture program. Helped course professors with course activities design and implementation. The main course subject was about how to use existing technologies to build infrastructure architectures in the enterprise architecture context.

Main Course Professor: Dr. Harold E. Castro (hcastro@uniandes.edu.co), Systems Engineering and Computer Science Department Head Professor, Universidad de los Andes, Bogotá DC, Colombia.

Feb 07—Aug 11 CISCO Regional Network Academy Assistant at the Universidad Tecnológica de Pereira, Colombia: network and classroom equipment software/hardware maintainer for the CISCO Department, Information Technology and Educational Resources Center (CRIE).

Supervisor: Juan Vergara (cisco@utp.edu.co), CISCO ASC-ITC Coordinator.

Group Memberships

COMIT	Telecommunications, and information technology infrastructure research group at Universidad de los Andes.
Sirius	High Performance Computing research group at Universidad Tecnológica de Pereira.
Nyquist	Data Networks and Telecommunications research group at Universidad Tecnológica de Pereira.
Pulpa	Co-founder of Pereira GNU/Linux User Group, Pulpa. An open source software and technologies community.
Colossus	Microsoft TechNet study group at Universidad Tecnológica de Pereira.
Pyrox	Python development study group. Home of Pyragua, the open source python editor.