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Languages	Primary Python, Java, Javascript Others PHP, Go, SQL, C, Ruby, T _E X
Universitary Education	<i>Undergraduate Student</i> , Sciences and Systems Engineering <i>Undergraduate Student</i> , Applied Physics Universidad de San Carlos de Guatemala, Finished curricula for Sciences and Systems Engineering, 2017
Projects and Experience	<div><div><i>Tech</i></div><div>2018</div></div> <div>Nómada – Guatemala</div> <div>Tech and strategy for Nómada, an independent progressive online journal.</div> <ul style="list-style-type: none">• Development of a tech strategy fit for independent media.• Frontend web development, API development. Performance and accessibility optimization for web.• Analytics and data analysis.• Design of a digital security policy for high-value and high-risk targets.• Web, Wordpress, Javascript, MySQL, Python, CSS <div><div><i>Technical and Publisher Support</i></div><div>January - September 2018</div></div> <div>Open Contracting Initiative Latinoamericana por los Datos Abiertos / OCP</div> <div>Technical support for publishers of Open Contracting Data Standard documents on public procurement.</div> <ul style="list-style-type: none">• Supporting publisher's needs related to the standard.• Design and implementation of tools for extraction, storage, validation, processing and analysis of OCDS data.• Validation and analysis of published data in the OCDS.• Reporting on validation status and data quality for publishers and support on suggesting ways to improve data publication quality.• JSON, JSON Schema, Python, PostgreSQL, Google Big Query <div><div><i>Fellow</i></div><div>2017</div></div> <div>School of Data / Open Knowledge Foundation</div> <div>Aide in data awareness, education and data driven decisions for activists, journalists and social agents.</div> <ul style="list-style-type: none">• Collaboration with multiple stakeholders on building software platforms for social impact.• Videotutorials and webinars on data analysis using Jupyter, Pandas and Python for data science ecosystem.• Support for projects related to the Open Contracting standard.• Assisting on creating the national curricula on basic data education and data awareness as part of the national open data policy for state institutions.• Jupyter Notebooks, Python, Neo4J, SQLite, Spreadsheets, Design Thinking, User Oriented Design, Hy

	<p><i>Senior Software Engineer</i> January - September 2016 Startrack S.A. Software for commercial GPS tracking</p> <ul style="list-style-type: none"> • High concurrency processing, network sockets, database integration, migration to microservices. • Testing, packaging, deployments and build processes, and documenting. • Large scale database deployments management (15 DBs, 20-100 GB). • Metrics for system status and performance. Visualization dashboards. • Java, PostgreSQL, Python, Kotlin, Grafana, Prometheus, Shell
	<p><i>Student Developer, Google Summer of Code</i> 2014, 2015 FOSS ASIA / FashionTec – Google Inc. Software for Knitting Machines - Knitapps, Knitlib, AYAB GUI</p> <ul style="list-style-type: none"> • Implementation of protocols and a library for controlling knitting machines. • API design for several clients (Web, Python library) and devices. • Asynchronous Serial communication, packaging, testing and documenting. • User Interface / User Experience. • Python, JavaScript, WebSockets, Arduino, PyQt
	<p><i>Teaching Assistant, Ad Honorem</i> 2014, First Semester 2015 Universidad de San Carlos de Guatemala – Engineering Faculty.</p> <ul style="list-style-type: none"> • <i>Operating Systems 2 (2014, 2015)</i>: Introduction to Linux kernel, kernel module development, system calls, virtualization, remote process execution. <i>C, Git</i> • <i>Algorithms and Data Structures (2015)</i>: Algorithmic complexity, Sets, Lists, Dictionaries, Trees (binary, auto balancing, b-trees). <i>Java, C</i>
	<p><i>Freelance Software Developer / Project Manager</i> February - May 2014</p> <ul style="list-style-type: none"> • Multinational ad campaign tie-in card game (80 000+ users) • Team lead, Programmer, SysAdmin • Java, Play Framework, Scala, OAuth Authentication, MySQL
	<p><i>Software Engineer</i> January 2013 - December 2013 4 Acertijos – Guatemala City.</p> <ul style="list-style-type: none"> • <i>Systems Architect, Data Analysis</i> Software for enterprise vending workflow analytics and optimization. • <i>Team and Project Management</i> Managed the development of a multiplatform mobile real estate sales app. • Roles as salesperson, exhibit spotter, photographer, Glass explorer, etc. • Responsive Web Development, HTML 5, Android, Python, .NET MVC 4.
	<p><i>Software Engineering Intern</i> June - September 2012 Google Inc. App Engine – San Francisco.</p> <ul style="list-style-type: none"> • Python, App Engine Datastore, SQLite. • Distributed Systems, Non-relational storage. • Learnt automated Build Tools, testing, code craftsmanship.
Projects and Experience (cont.)	<p><i>Student Developer, Google Summer of Code</i> 2011 openSUSE project – Google Inc. Taxi - an online ICC color profile calibrations sharing webservice.</p> <ul style="list-style-type: none"> • Python, MongoDB, Werkzeug - WSGI, JavaScript • Collaboration with the OpenICC group on colour management techniques. • Emphasis on non-blocking, parallel dispatch of binary profiles. • Presented in Nuremberg, Germany, for the openSUSE Conference 2011

	<p><i>Developer</i> 2010+</p> <p>Shoebot: Free Software (Python/Cairo based) drawing bot</p> <ul style="list-style-type: none"> • Python, PyGTK, PyCairo, Pango, PIL • Implemented typographic support, bugfixes, style, docs, etc.
	<p><i>Webmaster</i> 2009-2011</p> <p>InGame Magazine - Promedia Editorial: Pioneering videogame magazine in Latam.</p> <ul style="list-style-type: none"> • Website, Forum management • Community Building • Analytics • jQuery, PHP, MySQL, Wordpress. • Wrote and published articles on printed media, video.
Contests and Awards	<p><i>Chispa</i> March 2015</p> <p>Buenos Aires, Argentina</p> <p>First Prize: Desarrollando America Latina 2014</p> <p>On-site incubation for two weeks on Social Entrepreneurship.</p> <p>Design Thinking, Solution-based design. Tech as a change agent for society.</p> <p><i>Space Apps Challenge</i> 2014</p> <p>Guatemala City, Guatemala</p> <p>Project: Urban Data</p> <p>Award: Global Award Finalist, First Place Local Award</p>
Courses and training	<p><i>Low Cost Solutions for Wireless Connectivity</i> November 2011</p> <p>International Centre for Theoretical Physics (ICTP), TWAS</p> <p>Guatemala, Guatemala</p> <p>Training on implementation of Low Cost Networking in the developing world.</p> <p>Wireless Networking and internet access, IPv6, antennas and radio physics theory.</p> <p><i>Mathematical School of Latin America and the Caribbean (EMALCA)</i> May-June 2011</p> <p>Unión Matemática de América Latina y el Caribe Latin America (UMALCA), Centre International de Mathématiques Pures et Appliquées (CIMPA), International Mathematical Union (IMU)</p> <p>San Salvador, El Salvador</p> <p>Courses on Introduction of Dynamical and Chaotic Systems, Markov Chains, and Numerical Methods for the evaluation of PDE.</p>
Activities and Hobbies	<p>Free Software supporter.</p> <p>Digital and Analog Photography.</p> <p>Graphic Design and Typography aficionado.</p> <p>Basic knowledge in xilography, engraving, woodcarving and metalworking.</p> <p>Scientific Glass blowing.</p>