

Resume / Curriculum Vitae (CV)

Name: Luis León Cárdenas Graide
Title: Ingeniero Civil en Computación
Departamento de Ciencias de la Computación
Facultad de Ciencias Físicas y Matemáticas
Universidad de Chile
Phones: Mobile ☎ +56 9 9932 8817
Address: ☒ Peñaflo, Región Metropolitana, Chile
On-line resume: <http://www.dcc.uchile.cl/~lcardena/cv.pdf>

Software Engineer
Computer Sciences Department
Mathematics and Physics Faculty
University of Chile
E-Mail: [lcardena AT dcc.uchile.cl](mailto:lcardena@dcc.uchile.cl)
[luarden AT ing.uchile.cl](mailto:luarden@ing.uchile.cl)

* Personal Skills

- ☐ Systems Design & Modeling. Emphasis on Quality Assurance and Security.
- ☐ Proactivity and initiative on labor. Responsible and work committed.
- ☐ Good disposition in order to share knowledge and experience. Good working group integration.

* Linguistic Skills

- ☐ English: Advanced. ☐ Spanish: Native, advanced. ☐ Regular papers & books reader. ☐ Public presentations.
- ☐ Usual reading topics: Information Security, Science ("hard" and "soft"), [Secure] Software Development, Philosophy, Literature.

* Interests

- + Research: Privacy, Anonymity, Confidentiality, Stenography, Lateral Channel Information Leakage, Information Theory
- + Secure development and coding practices. System hardening.
- + Security risk assesment.
- + Distributed Systems, Cloud Computing.
- + High Performance, Load Balancing and High Availability.
- + State-level Information Security infrastructure.
- + Proficient standards-based web technologies.
- + FLOSS usage and development. Free Culture.
- + Accesibility and Interoperability.
- + Public Policies about technology.

* Technical Knowledge

- ☐ Advanced Programing: **Java (RMI, XML, JDBC, Reflection, OOP, Annotations, Generics, Swing, J2ME). Eclipse IDE. C & C++ (STL), Perl (CGI & Web), Bash** shell scripting, **Regular Expressions**, grammars, **SQL, Makefile**.
- ☐ Web: **XHTML, XML (DOM, SAX), YAML, JSON**, Cookies. Encodings: **ASCII, Unicode, UTF-8, Base64, MIME**. Basic **XPath, XQuery** and **Java Script**. **Apache** web server.
- ☐ Modeling: **Entity-Relationship, UML**, State-based automaton, Flow Diagram. Design Patterns.
- ☐ Databases: **Indexes, Views, Triggers**, Stored Procedures, query optimization. **MySQL** and **Postgres**.
- ☐ Operating Systems: Advanced user of **Linux (Ubuntu/Debian)** and **Windows**. Basic server setup.
- ☐ Other Programming Languages: **Lisp, PHP, C#, Visual Basic** and **Prolog**. Rudimentary **x86 & SPARC Assembly**.
- ☐ Security: PKI, SSL (SSH, HTTPS), Cryptographic Schemas, Security Protocols, Secure Storage, Secure Coding.
- ☐ Networking: **Ethernet, Wireless, IP (IPv4 & IPv6), IPSec, NAT**, routing, **TCP, UDP, {broad,multicast,any}cast, DNS, DNSSEC, SSL, HTTPS, SSH, REST WS, POPs, IMAPs, Firewall, VPN**, tunneling.
- ☐ Networking Tools: ping[6], traceroute[6], tcpdump, telnet, SSH, rsync, scp, wget/curl, torrent.
- ☐ Versioning and Tracking: Subversion **SVN, CVS, Unison. Trac, dotProject**.
- ☐ Hacking: Code injections: XSS, CSRF, URL, HTML, JavaScript, SQL, Shell. Same Origin Policy, *httpOnly*. MITM, Session Hijacking, Clickjacking, DNS pinning, Fast Flux, Double Flux, Botnets, Trojans, DDoS, phishing, pharming and whatever-you-say.
- ☐ Standards: W3C, RFC, OWASP.

* Work Experience

- ☐ Aug 2010: Security consultancy.
- ☐ Oct 2006 up to date: Project Engineer at NIC Chile, full time. Web development, process (re-)design, QA, information security, documentation. Statistics and accounting match. Tech: CGI Perl, MySQL, Bash and Java.
- ☐ Dic 2005-Aug 2006: Process design, requirements setup, implementation and documentation of a system in order to cope with web orders with fraudulent credit card payments. Tech: CGI Perl and MySQL.

- ▣ **Oct 2005:** Interface and logic implementation for a game under “3x3” challenge in our FCFM. Tech: Java Swing.
- ▣ **Jul-Nov 2005:** Participation in requirements setup, desing and development of an AIS for a multimedia mobile content distributor (*AndinaTech*). Tech: Ruby on Rails and Postgresql.
- ▣ **Dic 2003-Jan 2004** (2nd practice): Participation in requirements setup, design and development of an AIS on bioinformatics research in University of Chile's Biotechnology Department, in order to find a genetic solution against bad texture of chilean exportation frozen peaches. Founded by CONICYT through Fundación Chile, supporting Fundación para el Desarrollo Frutícola. Tech: Java Swing and MySQL.
- ▣ **Dic 2002-Jan 2003** (1st practice): Requirements setup, desing and development of a web site for students' management, involving grades, homeworks, lectures, e-mail notifications and electronic publications.
- ▣ **Other Projects:** Custom-made Lisp interpreter in Java. Games creation for desktop and mobiles. Tech: QBasic, J2ME.

* Academic Activities

- ▣ **Jul 2011:** Chair lecture [*CC5308*]*Linux System Administration* at `dcc.uchile.cl`.
- ▣ **Dic 2006:** Chair substitutions on Diplomado en Computación's speeches (DCC): Introduction to Networks and Network Security.
- ▣ **Sep 2006:** Auxiliary teacher on lecture [*CC51D*]*Data Security*.
- ▣ **Jul-Dic 2005:** Auxiliary teacher and webmaster on lecture [*CC31A*]*Systems Software Programing*. Chair substitutions.
- ▣ **Mar-Jul 2005:** Auxiliary teacher on lecture [*CC41C*]*Introduction to Hardware*.
- ▣ **Mar-Jul 2004:** Auxiliary teacher on lecture [*CC41A*]*Programing Languages*. Chair substitutions.
- ▣ **Aug-Dec 2003:** Auxiliary teacher and webmaster on lecture [*CC31A*]*Systems Software Programing* on University of Chile's Computer Science Department (DCC).
- ▣ Personal lessons about C++ to high school studentes. Personal lessons on mathematics and physics to secondary students.

* Other Activities

- ▣ **2006:** Student Vocal for Engineer Students Centre (CEI) from CADCC.
- ▣ **2005:** Vicepresident of Computer Sciences Department's Alumni Centre (CADCC).

* Studies

- ▣ **Mar 2010:** "Regional Training Workshop for Information Security Technicians", AMPARO Project, LACNIC & IDRC.
- ▣ **Nov 2009:** "Introduction to Micro Enterpreneurship, Administration and Finance Management", CENFOCAL LTDA.
- ▣ **Apr 2009:** "Technical Aspects for ccTLDs", LACTLD & NIC Chile.
- ▣ **Nov 2008:** "Summer School on Programming Languages PL2008", Pleiad.
- ▣ **Sep 2008:** Workshop "Advanced ccTLD Operations", ISOC & Ripe NCC.
- ▣ **Jul 2008:** "Service-oriented Secure Platform Development with Java Web Services", Provectis, Sun Microsystems.
- ▣ **Apr 2008:** "Sun Certified Programmer for the Java Platform, Standard Edition 5.0" (exam 310-055), Sun Microsystems.
- ▣ **Sep 2007:** Computer Security Diploma (**ciCERT**).
- ▣ **Jul 2007:** Web Services in Java.
- ▣ **2000-2006, University:** Year 2000: National Score (820 points) on mathematics admission test. Admitted (PAA, 791 points) to join Bachelor at *University of Chile's Physic Sciences and Mathematics Faculty* (FCFM). October 2006: Graduated with maximum distinction as *Ingeniero Civil en Computación (Software Engineer)* through FCFM's *Computer Sciences Department (DCC)*.
- ▣ **1999, High School:** *Instituto Alonso de Ercilla de los Hermanos Maristas*.

* Academic Achievements

- ▣ **2004-2006:** Distinguished Student in FCFM.
- ▣ **2003:** 1st national place in ACM international programing contest, founded by *IBM*, representing University of Chile.
- ▣ **1999:** National Score in Mathematics for Academic Aptitude Test (PAA), obtaining 820 points.