

Resume / Currículum Vitae (CV)



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On-line resume: <http://www.dcc.uchile.cl/~lcardena/cv.pdf>

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* 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, Machine Learning, Pattern Recognition, Information Retrieval.
- + 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.
- + Accessibility 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 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

- ~ **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.