# Jorge Aranda

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## PROFESSIONAL EXPERIENCE

*Since April 2013*

**Limbic Media / Limbic Consulting**, *Lead Scientist and Software Developer*.
Developing cloud-based data processing, analytics, and full-stack web applications with strong R&D components.
Performing many roles in a multidisciplinary team, from requirements elicitation to automated testing, from database administration to front-end component development, and from dev ops to tinkering with embedded systems.

*July 2012–April 2013*

**Terapeak**, *Software Engineer*.
Developed large-scale RESTful cloud-based web services.
Designed and implemented data retrieval and data mining algorithms.
Participated in every aspect of development, from problem definition to deployment.

*Sept. 2010–July 2012*

**University of Victoria**, *Software Engineering Postdoctoral Researcher*.
Consulted software organizations to help improve their coordination strategies.
Mentored graduate researchers in their coordination and communication studies.
Linked practitioners with scientists to produce actionable research findings.

*Sept. 2003–Aug. 2010*

**University of Toronto**, *Software Engineering Graduate Researcher*.
Advised over twenty software organizations on their software processes, practices, tools, and requirements strategies. Managed students and assistants in the development of software research tools.

*June 2008–Sept. 2008*

**Microsoft Research**, *Research Intern*.
Connected with three major product teams and negotiated access to their repositories and personnel. Analyzed their coordination dynamics for bug fixing, and reported on their beneficial and pathological coordination patterns.

*Jan. 2007–Dec. 2007*

**IBM Centre for Advanced Studies**, *Research Fellow*.
Conducted a project to analyze shared understanding in one major IBM product team. Proposed process improvements based on collected data.

*Jan. 2004–Jan. 2007*

**Bell University Labs / Kids Help Phone**, *Project Manager*.
Led a team of ten researchers and developers on a project of requirements modelling, goal visualization, and knowledge management for Kids Help Phone. Coordinated with the organization to determine its needs, and advocated for their resolution. Managed the development of all research and software deliverables.

*Jan. 2000–Aug. 2003*

**Independent**, *Entrepreneur and Software Consultant*.
Created a bespoke software development and consultancy group. Specialized in information systems. Co-managed team, performed customer relations and sales, elicited requirements, designed system architecture, led development teams, and developed production code. Performed in a bootstrapped, fast-paced environment. Clients included shoe manufacturing companies, a regional hospital, a bookstore, a University, a research institute, and a foreign trade government agency.

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EDUCATION

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|---|---|
| *2005–2010* | **Ph. D. in Computer Science**, *University of Toronto*. |
| | Thesis: A Theory of Shared Understanding for Software Organizations |
| *2003–2005* | **M. Sc. in Computer Science**, *University of Toronto*. |
| | Thesis: Anchoring and Adjustment in Software Estimation |
| *1995–1999* | **Honours B. Sc. in Computer Systems Engineering**, *ITESM: Monterrey Institute of Technology and Higher Education, Leon Campus*. |

PERSONAL PROJECTS

*Since 2011*   Developer of FISH.
https://github.com/jorgearanda/fish
A node.js and socket.io fishing stocks simulator for Environmental
Psychology experiments.

*Since 2011*   Creator and contributor of the *It Will Never Work in Theory* blog.
http://www.neverworkintheory.org/
Disseminating research results relevant to software professionals.

*2012–2013*   Contributor and evaluator of Software Carpentry.
http://www.software-carpentry.org/
Helping scientists improve their computing and software development skills.

SKILLS

*Technical*   EXPERIENCED: Python, Javascript, NodeJS, MongoDB, Redis, Leaflet, AWS, Git, Ansible, PostgreSQL, REST, Unit Testing.
KNOWLEDGEABLE: Shell scripting, Angular, jQuery, Nginx, C, C++, HTML5, CSS, Java, JWT, UML, Statistics, Social Network Analysis.
BASIC: Vagrant, Docker, Gulp, Bitbake, OpenEmbedded, Angstrom, Arduino, MySQL, Haskell, Genetic Programming.

*Interpersonal*   Agile practices and philosophy (XP, SCRUM), project management, effort estimation, risk management, conflict resolution, active listening, relational leadership, group facilitation.

*Languages*   Fluent in English and Spanish. Basic knowledge of French.

OTHER INTERESTS

*Research dissemination*    Reporting cutting-edge research developments in Software Engineering
in book chapters, magazines for the general public, and blogs.
(See http://cuevano.ca/publications/ or request CV for the full list.)
Invited talks at software firms and professional associations (Microsoft, IBM, VIATEC).

*Professional service*    Peer reviewer for top software engineering journals and conferences.
Member-at-large of Computer Science Graduate Society, University of Toronto.
Administrator of the University of Toronto Software Engineering Lab.
Vice-president of Computer Systems Engineering Student Association.
Treasurer of Prolider – Leadership Development Association.

*Community development*    Member of the Executive, Charles St. Family Housing Tenants Assoc., Toronto.
Neighbourhood Coordinator, FoodShare, Toronto. Workshop organizer and facilitator,
TCDSB Gifted Conference, Toronto. Volunteer, Spring Ridge Commons (Victoria),
Hot Yam! (Toronto), ITESM Alumni of Canada (Toronto), Special Olympics (Mexico).

*Arts*    Six years in theatre troupes as an Actor, Director, Translator, and Backstage Staff.
Five years in writing workshops; awards for short stories, long stories, and essays.

*Hobbies*    Reading, board gaming (especially Go), vegetable gardening, running.

LINKS

PERSONAL SITE: http://cuevano.ca/
GITHUB: https://github.com/jorgearanda/
STACKOVERFLOW: https://stackoverflow.com/users/694134/jorge-aranda
TWITTER: https://twitter.com/yorchopolis