

Career Goals	Make a difference applying my acute analytic skills and extensive experience in domain specific languages, compilers, modeling, computer security, and formal methods. Be part of a diverse team of motivated, productive, creative and disciplined people. Be challenged by technical and business situations outside of my experience.
Strengths	Exceptional ability to rapidly absorb and understand new technical material, and to communicate that understanding concisely. Exceptional written, verbal and presentation communication skills. Excellent ability to zoom in on what's important, while retaining the overall perspective. Firm believer in "To program is to understand." Continually refining interpersonal communication, conflict resolution, consensus building and management skills. Self-motivated and self-guided. Published in premier internationally reviewed conferences. Always committed to the practical, while remaining guided by the ideal.
Theory	Language and type system design, mechanized theorem proving, model checking. Good all-rounder in computing science and mathematics.
Programming	OCaml, Haskell, XQuery, XSD, XML, SQL, Lisp, C++, C.
Security	Cryptography, network security, security policy modeling, threat modeling.
Miscellaneous	Electronics hardware design.
Jan 2006–Present	Program Manager/Developer/Architect, SQL Server, Microsoft, Redmond, Washington. Designed and prototyped a unified Relational and XML schema and query language. Became expert in SQL, XQuery and XML Schema (XSD). Brought alignment between diverse teams. Developed and communicated technology strategy.
Jul 2002–Dec 2006	Applied research scientist, Galois Connections, Beaverton, Oregon. Developed new consulting business with various defense clients. Designed and prototyped a multi-level web server with a custom security policy. Designed and developed a certifying compiler for a domain specific language for block-cipher cryptographic algorithms. Implemented virtual machine in C.
Apr 2002–May 2002	Research Fellow, Department of Computer Science, Melbourne University, Australia.
Feb 2001–Apr 2002	Post-doctoral researcher, Microsoft Research, Cambridge, United Kingdom. Researched and published in advanced type systems for functional programming languages.
Feb 1996–Feb 2001	PhD Student in Computing Science, Oregon Graduate Institute, University of Glasgow, Sydney Institute of Technology.
1994–1995	Bachelor of Science Honors Student in Computing Science, University of Melbourne, Australia.
Sep 1993–Mar 1995	Software Engineer, Australian Bionic Ear and Hearing Research Institute, Melbourne, Australia. C++ programming for implant programming software.
Apr 1992–Aug 1993	Software Engineer, Systematix Pty Ltd, Melbourne, Australia. C++ programming for schedule optimization software.
Aug 1991–Apr 1992	Software Engineer, Co-Cam Computer Group, Melbourne, Australia. C programming for financial information systems.
Mar 1989–Aug 1991	Software Engineer, Systematix Pty Ltd, Melbourne, Australia. Miscellaneous business programming.
Jun 1988–Mar 1989	Programmer, Arthur Andersen & Co, Melbourne, Australia. Miscellaneous business programming.
1987–1990	Bachelor of Science in Computer Science, Monash University, Australia.
Residence	Seattle, Washington
Nationality	Australian, in United States on H1-B
Education	Doctorate in Computing Science, Oregon Graduate Institute, 2001. Thesis title: "Static types for dynamic documents".
References	Available upon request
More information	http://www.cartesianclosed.com