

## David Goodger

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### Software Engineer/Architect · Systems Engineer/Analyst · Project Manager · Trainer

Software/Systems Engineer with professional experience in the medical device industry, the financial sector, and automation/manufacturing. Experience in project management and training. Recognized expert in the Python programming language. Extensive experience with markup languages for documentation, document processing, and data interchange. Cross-platform systems development experience, ranging from GUI desktop applications to web services to command-line tools.

Strengths include: articulate, effective communication between technical and non-technical/business audiences, public speaking, excellent writing and editing skills, thorough and tenacious problem solving. International experience, with written and spoken Japanese and French.

### Technical Skills

**Programming Languages:** Python (expert), Perl, Lisp, Visual Basic, C, C++, SQL, Bash.

**Development Methodologies:** Agile (Scrum, Extreme Programming), design patterns, refactoring, TDD/test-driven development, UML.

**Operating Systems:** Linux/UNIX/QNX/Solaris, Windows, Mac OS X.

**Documentation Technologies:** XML, XSL, SGML; HTML/XHTML, CSS; Docutils/reStructuredText; Unicode; document analysis, DTD design; document data processing.

### Experience

**Morgan Stanley Services Canada Corp.**, Montréal, Québec, Canada May 2021 – May 2022  
**Software Engineer, Python Subject Matter Expert (Vice President).**

- Dynamic Languages team, Enterprise Application Infrastructure.
- Software development, including Jupyter.
- Software deployment: Python applications & packages.
- Python support & training, organization-wide.

**Medtronic Inc.** (formerly Corventis), Mounds View, Minnesota, USA January 2013 – May 2020  
**Principal Systems Engineer.**

- Projects: SEEQ mobile cardiac telemetry patch & CareLink cardiac patient monitoring service.
- Systems & data analysis.
- Software systems requirements development.
- Agile Scrum Product Owner.

**Software Engineer (Programmer/Analyst).** Developed desktop GUI software for an electronic medical device system (SEEQ mobile cardiac telemetry patch). Technologies: Python, wxPython GUI toolkit, USB communication, web services, Dropbox integration.

**Independent Consultant**, Montréal, Québec, Canada December 2008 – January 2013  
**Programmer/Analyst, Trainer, Systems Administrator.** Primary client: CDP Capital.

**CDP Capital Inc.**, Montréal, Québec, Canada July 2005 – June 2012  
**Programmer/Analyst.** Developed software tools for investment data analysis, including foreign exchange order management system and index fund management software. Technologies: Python, wxPython & tkInter GUI toolkits. (Full-time employee July 2005 – December 2008; consultant December 2008 – June 2012)

**Python Software Foundation**, remote & Chicago, Illinois, USA December 2008 – September 2009  
**Conference Coordinator.** Chaired the PyCon 2009 & 2008 Python community conferences, working (mostly remotely) with volunteer organizers and professional meeting planners. Chaired PyCon 2008 as a volunteer.  
**Member of the Board of Directors** (elected volunteer, February 2006 – July 2009)

**ELM Machine Service Inc.**, Cambridge, Ontario, Canada April – July 2003  
**Consulting Developer.** Developed a control panel and data acquisition application for a PLC-based industrial gauge system, using open-source rapid application development tools (Python, wxPython, Boa Constructor).

**ATS Automation Tooling Systems Inc.**, Cambridge, Ontario, Canada February 2000 – January 2003  
**Systems Administrator & Software Developer.** In charge of network and server systems in a mixed (Windows & QNX) environment, office and production facility with over 100 workstations. Developed engineering data processing applications & system maintenance solutions.

## Experience (continued)

**Rikai Ltd.**, Tokyo, Japan February 1996 – May 1998  
**President and Founder.** Software development & information technology consulting. Primary client: Uniscope.

**Uniscope, Inc.**, Tokyo, Japan November 1995 – May 1998  
**Operations Manager & Technical Team Leader; Software Developer.** Project & personnel management; research & development; analysis, design, and development of document processing, workflow, relational and object database, intranet, and internet systems; systems administration (Unix/Solaris, Windows platforms).

**Embassy of Canada**, Tokyo, Japan January 1994 – November 1995  
**Network Systems Administrator & User Support Manager.** Systems administration, user support, training, programming, & troubleshooting (150 Windows clients, Unix servers).

**Gunma Prefectural Board of Education**, Gunma, Japan July 1991 – December 1993  
**Assistant English Teacher, Japan Exchange & Teaching Program.** Taught in 3 high schools.

## Open-Source Projects

**Docutils: Documentation Utilities** (<http://docutils.sourceforge.net>) — project coordinator and architect.

**Polyform Puzzler** (<http://puzzler.sourceforge.net/>) — project coordinator and architect.

**The Go Tools Project** (<http://gotools.sourceforge.net>) — project coordinator and architect.

**Python** (the programming language, <http://www.python.org>) — contributing developer; author or co-author of several Python Enhancement Proposals (<http://www.python.org/peps/>).

## Education & Certificates

**Bachelor of Science, Major in Computer Science** 1991  
McGill University, Montréal, Québec, Canada

**Japanese-Language Proficiency Test, Level 2** 1992  
Japan Foundation & Japan Educational Exchanges and Services, Tokyo, Japan

**Certified Scrum Product Owner** 2019  
Scrum Alliance, Minneapolis, MN

## Publications

**Hello World! Computer Programming for Kids and Other Beginners** (Manning, 2009) — Technical Editor.

**Python For Dummies** (Wiley, 2006) — Technical Editor.

**Python Cookbook, Second Edition** (O'Reilly & Associates, 2005) — contributor (section 1.23).

**Python Cookbook** (O'Reilly & Associates, 2002) — contributor (sections 15.4 & 2.3).

**Professional Linux Programming** (Wrox Press, 2000) — author of Chapter 15, “Python,” a programmer’s introduction to the Python programming language.

## Keynote Presentations & Tutorials

**Python in India** — Keynote presentation at PyCon India 2010 (Bangalore, India).

**wxPython I: Introduction to GUI Programming & wxPython II: GUI Programming and MVC** — Tutorials at PyCon 2008 & 2010 (Chicago, Illinois & Atlanta, Georgia).

**How to Become an Invited Speaker** — Keynote presentation at RuPy 2009 (Poznan, Poland).

**Code Like a Pythonista: Idiomatic Python** — Tutorial at PyCon 2007 & OSCON 2007 (Dallas, Texas & Portland, Oregon).

**Text and Data Processing** — Tutorial at PyCon 2006 (Dallas, Texas).