

Yannick Gingras

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- WORK EXPERIENCE
- ◇ **Senior Python Developer**, Radialpoint (2011 – present)
 - Implement a rich Web application
 - Establish Python best practices for coding and deployment
 - Review and evaluate technical specifications
 - **Tech. environment:** GNU/Linux, Python, Django, MySQL, Git
 - ◇ **Founder / Tech-Lead**, Ajah (2009 – present)
 - Design and implement a rich Web application from front-end to backend
 - Deploy and keep running an awesome Web application
 - Answer all other IT needs of a young Internet startup
 - Sell the service to non-profits, from cold-calls to closing negotiations
 - **Tech. environment:** GNU/Linux, Python, Pylons, TurboGears, Mako, SQLAlchemy, Postgres, Mercurial, JQuery
 - ◇ **Senior Python Developer / Team Lead**, Pivotal Payments (2008 – 2009)
 - Analyze, design and develop scalable and reliable applications using Python
 - Design complex object-oriented solutions based on advanced software development practices and methodologies
 - Enforce and implement best practices in code refactoring, unit testing and agile practices
 - Design and perform unit testing plans and project implementation in a free software / open-source environment
 - Provide technical training and share best practices among to development team members
 - **Tech. environment:** GNU/Linux, Python, WSGI, MySQL, MSSQL, Mercurial
 - ◇ **Director of Tech Support and Sysadmin Consulting**, Savoir-faire Linux (2008)
 - Prioritize actions and dispatch personnel
 - Define implement and enforce robust and efficient procedures
 - Evaluate skill levels and plan continuing education
 - Review customers feedback and customize offering
 - ◇ **GNU/Linux and Free Software Consultant**, Savoir-faire Linux (2007 – 2008)
 - Helped to scale a web application to one million users (PHP, MySQL replication, MySQL tuning, SQL optimization)
 - Lead-coder for a logistics application (Python, Pylons, SQLAlchemy, 5 persons team)
 - Consulting on the GNU/Linux port of a multi-player FPS game server (C++, Unix dev. tools)
 - Deployed robust spam filtering solutions (Postfix, Exim, Amavis, Spam Assassin)
 - Respond to emergencies / rescue damaged data and failed systems
 - Deploy scaling solutions for both hardware and software
 - Free software modifications, deployment, integration, and support
 - Personalized training on mission critical free software
 - **Tech. environment:** GNU/Linux, Python, MySQL, Postgres, Postfix, LDAP, Samba

- WORK EXPERIENCE (CONT.)
- ◇ **System Administrator**, UQAM (2005 – 2007)
 - Web applications maintenance
 - Server software installation
 - Bioinformatics workstations setup and deployment
 - Tool customization
 - Help students and researchers with technological choices
 - **Tech. environment:** GNU/Linux, Python, BLAST, Sun Grid-engine, Apache, LDAP, Samba
 - ◇ **Bioinformatics Research Assistant**, UQAM (2004 – 2007)
 - Implementation of a sequence and alignment viewers (OpenGL, Python, Twisted, Qt)
 - Bayesian sequence classifier
 - Conception of a phylogenetic tree viewer (Common Lisp)
 - Port to C++ and maintenance of *Domain Teams*, a full genome scanner
 - Conception of a Web interface for genomic data presentation (Common Lisp, Python)
 - Classification of cancer cells using genomic expression profiles (R/Bioconductor)
 - **Tech. environment:** GNU/Linux, Python, C++, Common Lisp, Agile Methodology, DVCS
 - ◇ **Programmer / Developer**, Savoir-faire Linux, Montréal, Qc (2003 – 2004)
 - Lead developer for an enterprise resource planner (Python, Qt)
 - Responsible for the courses on Qt and system programming on POSIX (threads, IPC, sockets)
 - **Tech. environment:** GNU/Linux, Python, C++, MySQL, Qt, CVS
 - ◇ **Programmer / Team Leader**, Eclipsys, St-Lambert, Qc (2000 – 2002)
 - Administration of development infrastructures: CVS, backups, releases, feature freezes, etc.
 - Low level programming (sockets, threads, IPC, RPC)
 - Management of a small team (2 to 5 programmers)
 - **Tech. environment:** GNU/Linux, Python, C++, MySQL, CVS
- OTHER EXPERIENCE
- ◇ **Co-chair**, PyCon (<http://us.pycon.org>) (2011 – present)
PyCon is the largest conference in the Python world
 - Establish and keep and enforce the conference budget
 - Find sponsors
 - Help the conference chair make a call on issues such as venue selection, dates, and floor configuration
 - Coordinate with external providers
 - Act as the chair in his/her absence
 - ◇ **Lead Organizer**, Montréal-Python (<http://montrealpython.org>) (2008 – present)
Montréal-Python is a group for local users of the Python programming language
 - Handle the logistics of the monthly meetings: room, audio-video equipment, drinks, ...
 - Look for, motivate, and coach speakers
 - Find sponsors
 - Coordinate the effort of the other organizers
 - ◇ **Organizer, program committee**, ConFoo (<http://confoo.ca>) (2009 – present)
ConFoo is the largest Web development conference on the East Coast.
 - Look for, motivate, and coach speakers
 - Find sponsors

- OTHER EXPERIENCE (CONT.)
- ◇ **Maintainer**, AsciiDoc (<http://www.methods.co.nz/asciidoc/version9.html>) (2007 – 2008)
AsciiDoc is a lightweight markup language for DocBook
 - Converted stand-alone program to a library (Python)
 - Fixed several portability issues
 - Improved packaging (Setuptools)
 - Lead the transition to a distributed revision control system (Mercurial)
- SKILLS
- ◇ **Languages**
Common Lisp, Python, R, Perl, C, C++, Bash, SQL (PostgreSQL, MySQL), Java, XML, XPath, XSLT, XHTML, CSS, Regular Expressions
 - ◇ **Bioinformatics**
Bioconductor, BLAST, BioPython, Clustal
 - ◇ **Graphics**
OpenGL, Gimp, Blender, Inkscape
 - ◇ **Development**
Git, Mercurial, Subversion, CVS, Emacs, diff, patch, automake, autoconf
 - ◇ **System Administration**
GNU/Linux, LDAP, Apache, PostgreSQL, MySQL, Postfix, Exim, Mailman, Zope, Samba
 - ◇ **Software Engineering**
UML, Design Patterns
 - ◇ **Natural Languages**
French, English: fluent
- EDUCATION
- ◇ **Astrobiology Institute, University of Hawaii**, Honolulu, Hawaii
Computational Astrobiology Summer School (2006)
 - ◇ **Université du Québec à Montréal (UQAM)**, Montréal, Qc
Bachelor's degree in Applied Mathematics and Computer Science (2004 – 2007, interrupted)
 - ◇ **Collège André-Laurendeau**, Montréal, Qc
DEC en Informatique (College Degree in Computer Science) (1997 – 2000)
- PUBLICATIONS
- M. Menor, K. Baek, M. Belcaid, Y. Gingras, G. Poisson, *Anacle: A skeleton method for taxonomic annotation of metagenomic DNA-fragments*, submitted, 2009.
- A. Bergeron, C. Chauve, Y. Gingras, *Formal models of gene clusters*, chapter 8 of *Bioinformatics Algorithms: Techniques and Applications*, I. Mandoiu & A. Zelikovsky, (editors), Wiley Book Series in Bioinformatics, pp. 177-202, 2008.
- M. Belcaid, A. Bergeron, A. Chateau, C. Chauve, Y. Gingras, G. Poisson, M. Vendette, *Exploring Genome Rearrangements using Virtual Hybridization*, Asia-Pacific Bioinformatics Conference, Advances in Bioinformatics and Computational Biology, World Scientific, pp. 205-214, 2007.
- G. Blin, A. Chateau, C. Chauve, G. Fertin, Y. Gingras, *Inferring positional homologs with common intervals of sequences*, RECOMB Comparative Genomics International Workshop, Lecture Notes in Bioinformatics 4205: 24-38, 2006.
- G. Blin, A. Chateau, C. Chauve, G. Fertin, Y. Gingras, *CIGAL: a Conserved Intervals Gene ALigner*, Phylogenomics Conference, St-Adèle, March 2006 (poster).
- M. Belcaid, A. Bergeron, A. Chateau, C. Chauve, Y. Gingras, G. Poisson, *Exploring Genome Rearrangements using Virtual Hybridization*, Phylogenomics Conference, St-Adèle, March 2006 (poster).
- O. Gingras, Y. Gingras, A. Levasseur, A. Bergeron, C. Chauve, *A software tool for whole genome synteny comparisons*, RECOMB Comparative Genomics International Workshop, Dublin, September 2005 (poster).