

# Petter Håggholm

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- OBJECTIVE     Software development position in backend/platform/systems software with a focus on code design, API improvement, and algorithm design, analysis, and optimisation.
- EDUCATION    ◇ **University of British Columbia**, Vancouver, British Columbia  
Master's degree (M.Sc.) in Computer Science, August 2007.  
Thesis: *PyRemote: Object mobility in the Python programming language*; see [Publication](#).
- ◇ **Bishop's University**, Lennoxville, Québec  
Bachelor's degree (B.Sc.) in Computer Science, June 2005.  
Honours in Computer Science, minor in Mathematics.
- AWARDS        ◇ University of British Columbia international student scholarship (2005, 2006)  
              ◇ Stephen St. Clair Memorial Scholarship, awarded by Bishop's University (2002, 2003, 2004)  
              ◇ *Georg Leires Fond* (the Georg Leire Fund), scholarship bequeathed by Bergska Skolan (2001)  
              ◇ The University Prize in Computer Science, Bishop's University (2005)  
              ◇ The Albert Kwong Memorial Prize in Computer Science, Bishop's University (2002)  
              ◇ The U-1 Alumni Prize, Bishop's University (2002)  
              ◇ Member of the Golden Key International Honour Society
- PUBLICATION ◇ *PyRemote: Object mobility in the Python programming language*.  
Master's thesis (sole author), University of British Columbia, 2007.
- ◇ *Distributed, real-time programming on commodity POSIX systems: A preliminary report*.  
Stefan D. Bruda, Petter Håggholm, and Scott Stoddard  
Proceedings of the 5<sup>th</sup> International Symposium on Parallel and Distributed Computing,  
Timisoara, Romania, July 2006, IEEE Computer Press, 2006.
- SKILLS        ◇ Python, C, C++, Java, SQL, PHP, JavaScript/ECMAScript, bash  
              ◇ Have experience web programming via CGI scripting and `mod_python/mod_wsgi`; some  
              experience with TurboGears and Django. Familiar with ORMs such as SQLAlchemy and  
              SQLAlchemy. Some experience with perl and x86/MIPS assembly.
- ◇ Familiar with common POSIX CLI build systems, Microsoft Visual C++, Eclipse, and com-  
              mon editors such as vi/vim; both monolithic and distributed VCSes (Subversion, Mercurial).
- ◇ Moderate administration experience with Linux workstations and servers (Apache/PHP,  
              PostgreSQL, MySQL, Courier IMAP, Subversion, Mercurial, iptables. . .).
- ◇ Bilingual (English/Swedish), excellent writing skills; basic French.
- WORK         ◇ **Software Developer**, eRezLife Software (September 2007 – present)
- EXPERIENCE    ○ Designed and implemented an algorithm for a new room assignment module of the  
eRezLife university residence management system. Duties included requirement gath-  
ering, algorithm design, analysis, and optimisation, and software implementation in  
PHP/SQL, benchmarking, profiling, etc.
- Took a leading role in improving test coverage, and in improving test performance to  
make regular pre-commit unit test batch runs practical.

- Wrote a number of in-house tools, including
  - Client and serverside input validation generators
  - Modular form presentation to phase out monolithic legacy system
  - Unit test integration scripts to phase in continuous integration
  - Unit test skeleton code and state cache
  - Deployment scripts
- Performed system setup and administration duties on RHEL5 Linux server.
  - Included writing scripts to automate data imports, backups and backup pruning, etc.
- ◇ **Teaching Assistant**, Department of Computer Science, University of British Columbia (September 2005 – April 2007; part time position)
- ◇ **Research Assistant/Programmer**, Department of Computer Science, Bishop's University (May 1, 2004 – August 31, 2004; full time position)
  - Assisted in the design of a soft realtime agent-based programming language, [RTSync](#).
  - Implemented the compiler and distributed runtime environment for the language with one other research assistant.
  - See also [Publication](#): *Distributed, real-time programming on commodity POSIX systems: A preliminary report*.
- ◇ **Teaching Assistant**, Department of Computer Science, Bishop's University (January 2002 – April 2005; part time position)

REFERENCES Available on request