

Petter Håggholm

petter@petterhaggholm.net
www.petterhaggholm.net

OBJECTIVE I'm a fairly recent graduate, but beyond the tasks in my current software development job, I have a decade of experience in computer programming for both academic projects (the obvious requirements for computer science degrees) and personal ones, such as scripting for Linux system administration, database integration, and miscellaneous small-scale applications ranging from DOS/Mode 13h games in C++, through web browsing conveniences and a database of all the books I've read (with a [web frontend](#)), to a Java re-implementation of Pong. I also have plenty of experience communicating and educating in the programming field through various teaching assistant positions.

I would like to work in a creative software development environment, where my skill in programming and ability to quickly pick up new languages can be paired up with mentors, collaborators, and sounding-boards. Although I have experience with DOM/AJAX/PHP frontend development, I tend to be more of a backend programmer, with an interest in programming languages, distributed systems, and database driven applications.

- WORK EXPERIENCE**
- ◇ **Software Developer**, one45/eRezLife Software, Inc. (September 2007 – present)
 - Designed and implemented an algorithm for a new room assignment module of the eRezLife university residence management system. Duties included requirement gathering, algorithm design, analysis, and optimisation, and software implementation in AJAX/PHP/SQL.
 - 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
 - ◇ **Teaching Assistant**, Department of Computer Science, University of British Columbia (September 2005 – April 2007; part time position)
 - Supervised and assisted with lab exercises, gave tutorial sessions, provided one-on-one tutoring, monitored discussion forums, and proctored and marked exams.
 - Courses: Introduction to Computation, Object-Oriented Program Design, Internet Computing.
 - ◇ **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)
 - Supervised and assisted with lab exercises, provided one-on-one tutoring, and marked assignments.
 - Courses: Programming Methodology, Data Structures, Advanced C++ Programming.

- 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. GPA 90.5%.
 - ◇ **Bergska Skolan**, Finspång, Sweden
High school, June 2001.
The national Natural Sciences program (technical branch). GPA 95.5%.
- AWARDS
- ◇ **Scholarships**
 - 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), bequeathed by Bergska Skolan (2001)
 - ◇ **Academic awards**
 - 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)
- 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 5th International Symposium on Parallel and Distributed Computing,
Timisoara, Romania, July 2006, IEEE Computer Press, 2006.
- SKILLS
- ◇ Skilled at programming in Python, C, C++, PHP, JavaScript/ECMAScript, and Java.
 - ◇ Have experience with bash/shell scripting, perl, x86/MIPS assembly, and SQL; and web programming via PHP, [Python/perl] CGI scripting, and `mod_python`.
 - ◇ Familiar with common POSIX CLI build systems, Microsoft Visual C++, Eclipse, and common editors such as `vi/vim`.
 - ◇ Experience using the L^AT_EX typesetting system.
 - ◇ Familiar with Linux, Unix, Microsoft Windows, and MS-DOS operating systems.
 - ◇ Administration experience with Linux workstations and servers (Apache/PHP, PostgreSQL, MySQL, Courier IMAP, Subversion, iptables, etc.; distributions include [Ubuntu](#) and [Gentoo Linux](#)).
 - ◇ Fluent spoken/written English and Swedish, excellent writing skills; basic French.
 - ◇ Good communication skills and experience training people in programming topics.
 - ◇ Love to learn and a [quick reader](#).
- OTHER INFORMATION
- ◇ Member of the Golden Key International Honour Society.
- REFERENCES Available on request