Paul Hankes Drielsma <drielsma@me.com>

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Summary of Qualifications

- Lead developer and project manager of a large software platform for research
- Strong software engineering and system building abilities
- Deep technological expertise, both theoretical and practical
- Demonstrated problem solving and leadership skills
- Excellent communication, presentation, and human relations skills
- International background and multi-lingual fluency

Experience

Mobile Commerce Group, Carnegie Mellon University *2007-present*
Project Scientist

- Post-doctoral fellow researching usable privacy and security systems
- Project manager and lead developer of *Locaccino*, a location-based social networking application
  - Oversaw a small project team of developers, students, and faculty
  - Designed and implemented Locaccino, a large-scale enterprise Java application
  - Designed and implemented client programs for Macintosh in Cocoa/Objective-C
  - Brought Locaccino to a successful version 1.0 release
- Co-wrote grant proposals for major funding agencies such as the NSF
- Co-authored scientific papers for publication at top research venues
- Defined and supervised student projects for Master's theses and undergraduate independent study

Swiss Federal Institute of Technology (ETH Zurich) *2003-2007*
Researcher and Teaching Assistant (during doctoral studies)

- Supervised students, both undergraduate and graduate level
- Served as a teaching assistant for both undergraduate and graduate-level courses: created and graded assignments, assisted students, and taught tutorial sessions for courses including
  - Computer Science I: introduction to theoretical computer science and programming in C++
  - Information Security: introduction to the principles and methods of information security
  - Formal Methods for Information Security: advanced formal methods for the specification, analysis, and verification of secure systems

Albert-Ludwigs University, Freiburg, Germany *2002-2003*
Research Assistant, Telematics Group

- Researched static analysis of buffer overflows in Rational Rose UML models

Nortel Networks *Summer 1999, Summer 2000*
Call Processing Group

- Designed and implemented Call Processing software for Digital Multiplex System (DMS) telephone switches
- Developed tools for statistical capacity analysis of DMS switches
- Developed Intranet-based web applications

Education

Swiss Federal Institute of Technology (ETH Zurich) *2003-2007*
Ph.D. in Computer Science

- Doctoral studies under the supervision of Prof. David Basin
- Full-time researcher in **security analysis of Internet protocols** at the Information Security group
- Thesis title: "Building Formal Models of Next-Generation Security Protocols"

Carleton University, Ottawa, Canada *1998-2002*

Bachelor of Computer Science, Honors

- Recipient of the Senate Medal for Outstanding Academic Achievement
- Dean's Honor List (2002, 2001, 2000, 1999)
- Recipient of several merit-based scholarships: the Carleton University President's Scholarship, the John R. Pugh Scholarship, and the Nortel Networks Scholarship

VOLUNTEER EXPERIENCE

- Designer and coordinator of the "Information Security" exhibit at the 25th anniversary celebrations of ETH Zurich's computer science department (2006)
- Graduate student representative on the Computer Science Education Committee (2004-2006) and the Professorial Hiring Committee (2006) at ETH Zurich

OTHER

- Fluent in English (native), French, German, and Dutch
- Ability to work independently: self-starter
- Reliable, punctual, hard worker
- Able to motivate others and foster teamwork

References and full publication list available upon request.