

Adin Scannell

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PERSONAL STATEMENT I love both challenging technical problems and working with people. I want to apply my unique skills and knowledge in a context where I can indulge both passions while making a significant contribution.

SKILLS SUMMARY

- ▷ Works well independently but teams are a pleasure
- ▷ Strong communication skills, well-developed sense of humour
- ▷ Strong language and writing skills, also near fluency in French
- ▷ Able to fill flexible roles and proactively takes on new challenges
- ▷ Exceptional problem solving skills, able to learn and adapt very quickly

TECHNICAL SKILLS

- ▷ Intimately familiar with Linux and Unix operating systems (10 years experience)
- ▷ Proficient with many languages: C, C++, Java, python, Bourne shell
- ▷ Skilled with many tools, compilers, debuggers and version control systems
- ▷ Exposure and experience with a diverse set of hardware platforms
- ▷ Rudimentary understanding of electronics and hardware design
- ▷ Able to quickly learn and understand new or unfamiliar software and concepts

EDUCATION

University of Toronto (UofT) *Toronto, Ontario, Canada*
Ph.D. (*In Progress*), Computer Science January, 2008 - Present

- ▷ Areas of focus: mobile and distributed systems, networks and operating systems
- ▷ Advisor: Eyal de Lara

M.Sc., Computer Science September, 2006 - January, 2008

- ▷ Recipient of Wolfond Fellowship

University of Waterloo (UW) *Waterloo, Ontario, Canada*
B.Math, Honours Computer Science September, 2001 - December, 2005

- ▷ Graduated with distinction

University of Manitoba *Winnipeg, Manitoba*
Pangnirtung Field Program June, 2005 - August, 2005

- ▷ Involved a classroom component, a field component and a research component
- ▷ Field component took place over five weeks in Pangnirtung, a small Inuit community on Baffin Island in the province of Nunavut

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PUBLICATIONS

Journals

Amigo: Proximity-based Authentication of Mobile Devices

Adin Scannell, Alex Varshavsky, Anthony LaMarca and Eyal de Lara
International Journal of Security and Networks (IJSN), 2009 Volume 4 Number 1

Conferences

Fine Grain Adaptation of Multi-Purpose Content For Improved Mobile Web Browsing

Iqbal Mohamed, *Adin Scannell*, Nilton Bila, Jin Zhang and Eyal de Lara
ACM/IFIP/USENIX 8th International Middleware Conference (Middleware 2007)
Newport Beach, California, U.S.A., November 2007

Amigo: Proximity-based Authentication of Mobile Devices

Alex Varshavsky, *Adin Scannell*, Anthony LaMarca and Eyal de Lara
Ninth International Conference on Ubiquitous Computing (UbiComp 2007)
Innsbruck, Austria, September 2007

EXPERIENCE

Department of Computer Science, UofT

Toronto, Ontario, Canada

Sessional Lecturer

September, 2008 - December, 2008

- ▷ Lecturer for third-year undergraduate course, CSC369: Operating Systems
- ▷ Responsibilities include: organizing course infrastructure, creating assignments, bi-weekly lectures, grading, managing teaching assistants

Sensors and Devices Group, Microsoft Research

Cambridge, United Kingdom

Research Intern

April, 2008 - Present

- ▷ Wrote systems software during bring-up of an experimental hardware platform, both on the operating system side and embedded co-processor side
- ▷ Ported and debugged device drivers for graphics and network devices
- ▷ Wrote new device drivers to support custom peripherals
- ▷ Built a framework for low-impact performance monitoring and analysis

Department of Computer Science, UofT

Toronto, Ontario, Canada

Teaching Assistant

September, 2006 - Present

- ▷ Four-time teaching assistant for undergraduate operating systems course
- ▷ Led weekly tutorials over four semesters, clarifying concepts and explaining course material and assignments to students
- ▷ Delivered lecture on topics related to security
- ▷ Marked assignments and exams on a regular basis

Software Team, Sandvine Incorporated

Waterloo, Ontario, Canada

Software Developer

February - August, 2006

- ▷ Developed protocol recognition technology for a broadband network management device
- ▷ Worked on reverse engineering proprietary and obfuscated network protocols
- ▷ Addressed existing customer issues and bugs in the product during patch cycles
- ▷ Built and improved test infrastructure for voice-over-IP and peer-to-peer protocols

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Epsilon Group, Sun Microsystems Labs

Menlo Park, California, U.S.A.

Research Intern

January - April, 2005

- ▷ Filled myriad rolls during early development of Java-based wireless sensors, SPOTs
- ▷ Helped bootstrap a multi-platform embedded development kit for the SPOTs using ant
- ▷ Create source control repository and performed regular software builds
- ▷ Worked on features and bugs within the embedded Java VM, Squawk

Research Intern

May - August, 2004

- ▷ Participated in research using Berkeley's MOTES - tiny wireless sensor devices
- ▷ Wrote software for the recognition of gestures using data from accelerometers
- ▷ Created a radio protocol allowing for reliable as well as unreliable communication
- ▷ Augmented several physical devices with MOTES, including:
A/C power bars, doorbells, door locks, and switches

Waterloo Co-operative Residence Incorporated

Waterloo, Ontario, Canada

Division Manager

September - December, 2003

- ▷ Developed, organized and ran a divisional work-duty system for over 130 members
- ▷ Dealt with complaints, issues, emergencies and liaised between staff and residents
- ▷ Selected and directed a management team for all aspects of residence life, including:
social activities, sports, work duties, security, food and supplies

Transport Group, SOMA Networks

Toronto, Ontario, Canada

Software Developer

January - April, 2003

- ▷ Evaluated CompactPCI cards in order to replace components in SOMA's infrastructure
- ▷ Wrote Linux drivers to support sensors, IPMI, watchdogs and other new devices
- ▷ Updated software infrastructure in order to support heterogeneous hardware transparently
- ▷ Enhanced the bootloader for SOMA's embedded arm device by modifying the flash filesystem, reducing boot-time from 30 seconds to less than 10

Core OS Team, Xandros Corporation

Ottawa, Ontario, Canada

Software Developer

January - April, 2002

- ▷ Improved existing hardware detection and configuration utilities
- ▷ Maintained detection system configuration and built new packages for third-party drivers
- ▷ Pioneered the design and implementation of a new monitor detection utility
- ▷ Assisted with the build process for the operating system

OTHER INTERESTS

- ▷ Former software lead for the UW Robotics Team
- ▷ Organizer of a bi-weekly seminar for the UofT systems group
- ▷ Co-ordinator for the UofT Department of Computer Science 2008 applicant visit day
- ▷ Enjoys playing and listening to a variety of music
- ▷ Love of travel as well as exploring new languages and cultures