**Ian D. Allen**

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# Summary

* Professor of Information and Communications Technologies − 1996 to present Preparation, delivery, and assessment of community college Computer Science courses.
* UNIX/GNU/Linux® Computer Systems Administrator − 1980 to present

Operating system set-up, networking, security, programming, and friendly support.

# Education and Certification

* Linux Professional Institute **LPIC-1** 2009 (code ve2pwfp22v at **www.lpi.org**)
* Master of Mathematics (MMath), Computer Science, University of Waterloo 1985. Emphasis on software engineering, debugging, and human/computer interaction.
* Honours Bachelor of Arts (Dean’s List), Psychology, University of Waterloo, 1980. Specialized in counselling and social psychology.

# Selected Work Experience

## Community College Professor (1996 to present) teaching.idallen.com

Developing curriculum and teaching students at the Algonquin College of Applied Arts and Technology. Current topics at **teaching.idallen.com** include: introduction to UNIX/GNU/Linux system administration, UNIX/GNU/Linux script programming. Prior topics: UNIX/GNU/Linux for programmers, Web HTML and CSS, Web CGI programming, TCP/IP network programming, computer architecture, intermediate C programming (compiler writing), Windows 9x, Visual Basic, IBM OS/390 MVS JCL.

## Network Technical Director (3 years, to 1996) [www.ncf.ca](http://www.ncf.ca/)

Responsible for technical management, design, and programming at the 60,000-member National Capital FreeNet (NCF), Canada’s largest community network. Supervised NCF’s adoption of WWW and PPP technology under UNIX (SunOS/Solaris).

## Research Systems Manager (5 years, to 1993) [www.cgl.uwaterloo.ca](http://www.cgl.uwaterloo.ca/)

Responsible for a network of 50 UNIX/Ultrix computers in the Computer Graphics Laboratory at the University of Waterloo. Configured, upgraded, and modified most areas of the UNIX/Ultrix system environment to support academic research. Some real-time message-passing programming experience under the NRC Harmony operating system.

## Head of Math User Services (3 years, to 1988) [www.math.uwaterloo.ca](http://www.math.uwaterloo.ca/)

Supervised a staff of seven student consultants in the Mathematics Faculty Computing Facility at the University of Waterloo. Solved faculty, staff, and student problems on computers ranging from Honeywell DPS-8 main-frames to networked UNIX/BSD/Ultrix super-mini’s and Sun workstations.

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# Academic Standings and Scholarships

* MMath: Master of Mathematics, Computer Science, University of Waterloo, 1985.
* BA: Honours Bachelor of Arts, Psychology, University of Waterloo, 1980.
* Canadian Natural Sciences and Engineering Research Council (NSERC) Graduate Scholarship 1981.
* Province of Ontario Graduate Scholarship (OGS) 1982.
* Faculty of Arts Dean’s List, University of Waterloo, 1980.
* Faculty of Arts Scholarships, University of Waterloo, 1974 − 1978.

# Operating Systems and Languages

## Current Unix/Linux Experience

* Decades of experience (1976 to present) with several variants of UNIX/GNU/Linux operating systems on various hardware platforms and virtually under VMware. This includes:
  + Unix/Linux systems administration
  + X-Windows installation (xdm, xrdb, etc.)
* system and network security; ssh, NAT, firewalls
* network and communications programming, iptables
  + Protocols: HTTP, NNTP, SMTP, POP3, etc. − Unix/Linux kernel configuration and installation
  + Samba, Apache, News, sendmail, postfix, DNS/bind, Shorewall, troff/groff, etc.
* Perl, PHP, CGI, HTML, CSS, C programming, rsync, bash/sh/csh/awk/sed scripting, etc.

## Non-Unix Experience

* Some Windows 9x, XP networking and customization
* Windows Cygwin UNIX toolkit; Win4Lin; VMware
* Minor Apple OSX (Darwin BSD UNIX) installation and customization
* My past experience, mostly academic, also includes the following:
  + assembler: PDP-11, GCOS, IBM-PC
  + real-time O/S: RT-11, Harmony [NRC]
  + IBM mainframe: VM/CMS, TSO, JES3, JCL
* Macintosh System 6/7 (MPW C, Hypercard)
* legacy languages: COBOL, FORTRAN, PL-1, Pascal, ALGOL, SNOBOL, MODULA2, etc.

# Miscellaneous

* + Family: Married to retired midwife Jan Teevan; step-father to three young adults aged 33 − 38.
  + Languages: English, Conversational French, very little German and even less Esperanto.
  + Leadership training: Context Associated Excellence Series, Mastery graduate.
  + Theatre: amateur actor, improviser, director, writer, producer.
  + Arts: Contact improv dance, calligraphic lettering, posters, layout, digital photography.
  + Electronics Hobbyist, X10 (BSR) home automation.
  + Music: Piano, guitar, flute, recorder.

# Links to this Document

## [www.idallen.com/resume/](http://www.idallen.com/resume/)