

## Ian D. Allen

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### Summary

- Professor of Computer Studies (1996 to present)  
Preparation, delivery, and assessment of community college Computer Science courses.
- UNIX/Linux® Computer Systems Administrator (1980 to present)  
Operating system set-up, networking, security, programming, and friendly support.

### Education

- 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)**      <http://teaching.idallen.com/>

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

**Network Technical Director (3 years, to 1996)**                      <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)**                      <http://www.cgl.uwaterloo.ca/>

Responsible for a network of 50 UNIX 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)**                      <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/Ultrix super-mini's and Sun workstations.

## 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/Linux on various hardware platforms and virtually under VMware. This includes:
  - Unix/Linux systems administration
  - X-Window installation (xdm, xrdp, etc.)
  - Protocols: HTTP, NNTP, SMTP, POP3, etc.
  - Samba, Apache, News, sendmail, postfix, DNS/bind, Shorewall, troff/groff, etc.
  - system and network security; ssh, NAT, firewalls
  - network and communications programming, iptables
  - Unix/Linux kernel configuration and installation
  - C programming, Perl, PHP, Java, CGI, RRDTool, rsync, 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 mainframes: 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 midwife Jan Teevan; step-father to three young adults aged 26 – 31.
- Languages: English, Conversational French, a very little German/Esperanto.
- Leadership training: Context Associated Excellence Series, Mastery graduate.
- Theatre: amateur actor, improviser, director, writer, producer.
- Board Member of *a Company of Fools* professional theatre troupe - <http://fools.ca>
- 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

- <http://www.idallen.com/resume/>