Ian D. Allen

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WWW: **www.idallen.com**

Summary

- Former Professor of Information and Communications Technologies – 1996 to 2019
  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 (22 years, to 2019) **teaching.idallen.com**

Developed curriculum and taught students at the Algonquin College of Applied Arts and Technology. A list of topics is on **teaching.idallen.com** and includes: introduction to UNIX/GNU/Linux system administration, UNIX/GNU/Linux script programming, 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**

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**

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**

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.

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 variants of UNIX/GNU/Linux operating systems on various hardware platforms and virtually under VMware and Virtualbox. This includes:

  – Unix/Linux systems administration
  – X-Windows installation (xdm, xrdb, 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
  – Python, Perl, PHP, CGI, HTML, CSS, C, rsync, bash/sh/csh/awk/sed scripting, etc.

Non-Unix Experience

- Some Windows 9x, XP, etc. 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: B, COBOL, FORTRAN, PL-1, Pascal, ALGOL, SNOBOL, MODULA2, etc.

Miscellaneous

- Family: Married to retired midwife Jan Teevan; step-father to three young adults
- 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, Z-Wave, Zigbee, X10 (BSR) home automation.
- Supporter of electoral reform, proportional representation, **`www.fairvote.ca`**, etc.
- Music: Piano, guitar, flute, recorder.

Links to this Document

- **`www.idallen.com/resume/`**