

DANIEL F. DICKINSON

B.COMPUTING

dfdpublic@wildtechgarden.ca

PROFESSIONAL SUMMARY

Creating opportunities to follow a passion for life and tech for the common good.

SKILLS HIGHLIGHTS

- Cloud Computing: OpenStack, Puppet, Terraform, Ansible, CI, CD, SSL
- DevOps/System Administration: Linux (Debian, Ubuntu, CentOS, Alpine), Windows, SSH
- Software Development: C, Git, Python, Bash, Node.js, WSL, Visual Studio Code, Vi
- Frontend Web: HTML5, CSS3, JavaScript, Hugo, Authoring (technical and other)
- Virtualization: Qemu/KVM, Libvirt, Docker, Packer (some Hyper-V, Xen, Vagrant)
- Embedded Linux: OpenWrt, Yocto/OpenEmbedded, ARM, MIPS, Cross-Compiling

EMPLOYMENT HISTORY

DEVELOPER, BLOGGER & WEBSITE OPERATOR • DANIEL DICKINSON 2018 – 2023

- Created and administered a website and three blogs (merged into two websites).
- Authored articles and created and edited graphics and photos.
- Created, used, and modified website themes.
- <https://www.wildtechgarden.ca> — Technical and professional website
- <https://www.princesandmadmen.ca> — Political, creative and mental health blog

SOFTWARE DEVELOPER & DEVOPS • TURNBERRY SOLUTIONS 2015 – 2016

- Automated provisioning and deployment of OpenStack and AWS instances using Packer, Puppet, and Terraform.
- Automated configuration roll-out using Puppet and a Git/Puppet master in-house integrated system combined with an RPM repository, including detailed documentation.
- Developed various software in Python and Go, including software to find the type of devices connected to a telecommunications system.

SOFTWARE DEVELOPER & DEVOPS • YOH (DAY & ZIMMERMANN) 2014 – 2015

- See Turnberry Solutions (same client, different intermediary).

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FIRMWARE DEVELOPER • POWERCLOUD SYSTEMS 2011 – 2014

- Participated in the design and realization of a breakthrough cloud-based home networking solution in a fast-paced start-up environment, including developing, testing, troubleshooting, and bug-fixing using improvement on the techniques developed for an earlier cloud-based AP solution.
- Supplied technical help and advice related to the products to the QA team and the executive team.

SOFTWARE CONSULTANT • SMB PHONE INC 2010 – 2010

- Offered design advice on a hardware CPE VoIP device and designed prototype firmware.

FIRMWARE AND SOFTWARE DEVELOPER • VERTICAL COMMUNICATIONS 2009 – 2010

- Created a web front-end for the FreeSWITCH softswitch based on OpenWrt (Lua).
- Created a prototype web-based provisioning system for a VoIP device using Perl and designed a RESTful version.

INTERN • VERTICAL COMMUNICATIONS 2009 – 2009

- Enabled existing hardware VoIP device to use OpenWrt in preparation for enabling VoIP services through FreeSWITCH softswitch.

PART-TIME INDEPENDENT CONSULTANT • DANIEL DICKINSON 2003 – 2009

- Performed public service works, including helping non-technical users, developing, and documenting for open-source projects, and building, configuring, and distributing computers for free, at one point producing a custom Debian-based distribution for use on old hardware (XFCE-based).
- Became an OpenWrt and LuCI developer and earned commit access.

PROGRAMMER ANALYST / TECHNICIAN • C & I TECHNOLOGIES 1998 – 2002

- Designed and developed database projects in Borland C++ Builder, as well as websites, Java applets, and documentation.
- Designed, developed, and deployed a custom Java applet for graphical design and requesting sales quotes for module dock systems through to order-entry and matching with payments.

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UNDERGRADUATE TEACHING ASSISTANT • UNIVERSITY OF GUELPH 1998 – 1998

- Taught lab sections and graded projects for two different semesters.
- Advised students on course material.

ACCOUNTS PAYABLE CLERK • AUTOCOM MANUFACTURING 1997 – 1997

- Performed invoice and purchase order receiving.
- Matched invoices and purchase orders.
- Entered data into an AS/400-based accounting system
- Consulted with other employees about incomplete or delayed information reporting.

PRODUCTION SUPPORT • CRATE DESIGNS (HEIRLOOM CANADA) 1995 – 1996

- Moved to a perpetual inventory system using MISys and ACCPAC.
- Maintained inventory records (item lists and inventory).
- Produced production scheduling reports.

DATA ENTRY AND PROCESSING ASSISTANT • DR. DAVID L.G. NOAKES, UNIVERSITY OF GUELPH 1995 – 1995

- Entered data for a private library of research papers on Ichthyology.
- Entered and processed data for a paper by a research assistant of Dr. Noakes.

ACCOUNTING CLERK • PRIOR RESOURCE GROUP (VARIOUS CLIENTS) 1994 – 1994

- Coordinated four employees for preparation of incoming cheques/cash.
- Performed A/R duties and filing.
- Performed A/P data-entry.

TYPESETTER • ONTARION 1993 – 1993

- Performed entry and layout of ads (text-only ads).

YOUTH LITERACY ASSISTANT • WELLINGTON COUNTY LITERACY COUNCIL 1992 – 1992

- Promoted youth literacy including creating advertisements and administering a youth writing contest.

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COMMUNITY CONTRIBUTIONS

VOLUNTEER TUTOR • GATEWAY CENTRE FOR LEARNING 2018 – 2023

- Tutored learners to help them reach higher literacy levels in English and technology.
- Planned, prepared, and used existing materials to support learning.

MEMBER, MIDLAND ACCESSIBILITY ADVISORY COMMITTEE • TOWN OF MIDLAND

2018 – 2022

- Reviewed site plans for accessibility issues.
- Reviewed other town matters for accessibility related concerns under the AODA (Accessibility for Ontarians with Disabilities Act).

VOLUNTEER MAKER • MIDLAND PUBLIC LIBRARY MAKERPLACE 2017 – 2023

- Created and presented talks on various computing topics for adults.
- Taught basic electronics and coding, quite enthusiastically, to a group of children 8 to 12 years old as part of team of volunteers a “Bot & Bytes” workshop series.
- Participated and offered advice as a member of the Makerspace Advisory Group.

OPEN-SOURCE DEVELOPER • VARIOUS ONLINE/OFFLINE PROJECTS 2004 – 2023

- Collaborated with international teams on projects such as OpenWrt, various Hugo themes, and more.
- Added projects to which I created, or to which I have contributed, in GitHub repositories at <https://github.com/danielfdickinson> (moving to <https://gitlab.com/danielfdickinson>).
- Contributed directly and indirectly to Linux kernel (search for “Dickinson” in the source).
- Created a custom Debian-derived distribution for use on old computers.
- Assisted Bruce-Grey Linux Users Group in refurbishing old computers for United Way clients (STARS project).

WEBSITE DESIGNER • UNITED WAY, GUELPH 2001 – 2001

- Designed and deployed a website for the Guelph United Way which enabled the campaign associates to easily add news items.
- The site as it was (except graphics) can be viewed via the Wayback Machine at <https://web.archive.org/web/20011127114724/http://www.unitedwayguelph.com/>.

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PRESIDENT OF SCIENCE FICTION, FANTASY, AND HORROR CLUB • CENTRAL STUDENT ASSOCIATION, UNIVERSITY OF GUELPH 1997 – 1999

- Performed executive duties for the SFFH including promotion, activities, membership matters, and administrative duties.

EDUCATION

Currently cross-skilling in Microsoft's PowerPlatform and working toward several certifications

Smart Serve® • Ontario Government Online Certification (expired due to Cannabis Act) 2020

3D Printer and Laser Cutter Certifications • MPL MakerPlace 2019

Tutor Training • Gateway Centre for Learning 2018

WHMIS • Online certification 2016

Soft Skills Solutions® • HERO Centre 2016

Volunteer Training • CMHA, Hanover 2005

BACHELOR OF COMPUTING / BACCALAUREATE IN COMPUTING • UNIVERSITY OF GUELPH 2003

OSSD (OAC) • ADHS 1992

AWARDS

Dean's Honour List • University of Guelph 1997

J.A. Howsen Brocklebank Grade Thirteen Award (First): Highest in school on best seven O.A.C credits • ADHS 1992

J.A. Howsen Brocklebank Award: For male who contributed most to high school life • ADHS 1992

Special School Letter • ADHS 1992

School Letter • ADHS 1991