

Kyle (McNamara) Farwell

IT professional and web developer specializing in automation and systems administration

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Dorm 4 Rm313
c/o Algoma University
1520 Queen St. East
Sault Ste. Marie, ON P6A 2G4
Canada

SKILLS

Languages: PowerShell, rc shell, Bourne shell, AWK, JavaScript, [X]HTML[5], CSS[3], Java, C++, Python, Processing[.js], R.

Technologies: RDBMS, NoSQL, web content management, Material Design, CGI, werc, WordPress, Drupal, Jekyll, RSS, reCAPTCHA, Indico, Selenium, Qt, CUDA.

Software: Active Directory, Cogito, FOG, Polycom, Skype for Business, WebEx, Microsoft Office, LaTeX, Open Broadcaster Software, Wirecast, Git, Trello, Nginx, Apache, MySQL, Tor, i2p, Amazon Web Services, Docker, GIMP, Inkscape, OpenShot, Blender.

Operating Systems: Microsoft Windows, macOS, GNU/Linux (APT, RPM, Pacman, Portage, systemd, SysVinit, OpenRC, runit), OpenBSD, FreeBSD, Plan 9 from Bell Labs, Android, iOS.

EXPERIENCE

IT Help Desk Assistant September 2017 - Present
Algoma University, Sault Ste. Marie, ON

- Provided Level 1 and Level 2 support to 1500+ students, staff, and faculty.
- Provided accurate guidance and assistance in the operation of all hardware and software supported by ITS and resolved problems.
- Troubleshooted reported problems, recorded incidents, and documented resolution of incidents. Escalated issues and recommendations to senior staff.
- Deployed, configured, updated, and supported software on lab and staff computers.
- Provided audiovisual support to campus events.
- Overhauled computer build workflow to improve efficiency and reliability.
- Implemented scripts to automate tedious help desk tasks.

Founder and Lead Developer November 2015 - Present
Tokumei

- Developed the back end in rc shell with the werc minimal web framework.
- Designed and wrote the front end implementing modern design standards and highly compatible fallbacks.
- Hardened Tokumei and a FreeBSD server.
- Provided advanced technical support for clients.
- Wrote extensive technical documentation for end users.
- Organized social media marketing campaigns and conference booths.

President March 2017 - Present
Algoma Computer Science Club, Sault Ste. Marie, ON

- Designed and oversaw hackathons, talks, and other events.
- Developed and administrated a club website, event livestreaming, Mailman mailing lists, social media accounts, and a community event calendar.
- Sat on the Northern Game Design Challenge board.

Research Assistant, Network Algorithms December 2016 - August 2017
Algoma University, Sault Ste. Marie, ON

- Researched localized algorithms for rechargeable sensor networks.
- Worked with C++ and CUDA.
- Researched efficient data structures.
- Developed a dynamic website to visualize and interact with algorithms.
- Reported and presented research.

Research Assistant, 3D Scanning and Web Development March 2017 - April 2017
Algoma University, Sault Ste. Marie, ON

- Scanned cultural heritage artifacts in 3D.
- Fixed scan errors in Blender and GIMP.
- Researched efficient solutions for displaying 3D models on the web.
- Developed a dynamic web website with embedded 3D scans.

IT Support Tech July 2013 - August 2013
Bruce Grey Catholic District School Board, Hanover, ON

- Built computers.
- Upgraded network hardware.
- Installed and updated software on Windows and Mac computers.
- Troubleshooted and documented support tickets.

Laptop Refurbishment Volunteer November 2014 - May 2016
Computer Recycling, Kitchener, ON

- Troubleshooted and fixed varied problems.
- Spec'ed out laptops and installed Xubuntu for resale.
- Stripped laptops for recycling.

Software Freedom Day Volunteer September 2014
Computer Recycling, Kitchener, ON

- Helped with preparation and setup at Software Freedom Day 2014.
- Taught attendees how to use Xubuntu.

EDUCATION

Candidate for Honours Bachelor of Computer Science September 2016 - Present
Algoma University, Sault Ste. Marie, ON

- Enrolled in co-op.
- Chaired the Algoma Computer Science Club.
- Received a Silver Award of Excellence.

Secondary School September 2012 - July 2016
Bluevale Collegiate Institute, Waterloo, ON

- Graduated with Ontario Scholar distinction.
- Earned an average of 97% in Computer Science courses.
- Participated in the Canadian Computing Competition.

INTERESTS

Hackathons: Placed second at THacks; participated in Hack the North, Hack the Orchestra, Tech Retreat, and the Northern Game Design Challenge.

Free software: Attended LibrePlanet 2015 at MIT in Cambridge, MA; regular attendance at the Kitchener-Waterloo Linux User Group (2 years).

Economics and business: Nominated for the 2017 SSMARt Innovation Youth of the Year award, exhibited at OCE Discovery 2017 in Toronto, exhibited at YES! Algoma in Sault Ste. Marie, attended the 2015 International Conference of Prices & Markets at UToronto.