

Kyle Farwell

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Dorm 4 Rm106
c/o Algoma University
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Sault Ste. Marie, ON P6A 2G4
Canada

SKILLS

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

Technologies: werc, web content management, game programming, Material Design, CGI, RSS, reCAPTCHA, RDBMS, NoSQL, Jekyll, Qt, Swing.

Software: Git, Trello, Nginx, Apache, MySQL, Tor, i2p, GDevelop, Godot, GameMaker: Studio, Ren'Py, Amazon Web Services, Docker, MPD, LaTeX, LibreOffice, Blender, GIMP, Inkscape, OpenShot.

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

EXPERIENCE

Research Assistant, Network Algorithms December 2016 - Present
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.

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 technical support for clients.
- Ran advertising and social media marketing campaigns.
- Ran a booth at the OCE Discovery innovation-to-commercialization conference in Toronto.
- Mentored business students contributing to a business development project.

Lead Organizer March 2017 - Present
SooHacks, Sault Ste. Marie, ON

- Organized a student hackathon for 500 participants.
- Recruited and worked with partners, sponsors, volunteers, judges, speakers, mentors, and participants.
- Coordinated the venue, transportation, catering, and prizes.
- Developed the event website in Jekyll.
- Managed social media and email marketing.

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

- Designed and ran hack nights, lightning talk nights, workshops, pub nights, and game nights.
- Recruited members from Algoma University, Sault College, and local high schools.
- Developed a dynamic club website in werc.
- Managed social media and email marketing.

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 werc website with embedded 3D scans.

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

- Troubleshooted and fixed varied problems.
- Specced out laptops and installed Xubuntu for resale.
- Stripped laptops for recycling.

Web Developer August 2015 - December 2015
Scholarly, Waterloo, ON

- Developed Scholarly's front and back end in werc.
- Followed design guidelines.
- Deployed and hardened the Debian server.
- Prepared a highly functional first version in a week.

EDUCATION

Candidate for Honours Computer Science (BCoSc) September 2016 - Present
Algoma University, Sault Ste. Marie, ON

- Expected graduation in April 2019.
- Earned a final grade of 100% in Introduction to Computer Science I.
- Enrolled in an Economics minor.
- Enrolled in co-op.
- Ran 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.
- Scored 45 points in the 2014 Junior Canadian Computing Competition.
- Scored 24 points in the 2015 Senior Canadian Computing Competition.

INTERESTS

Programming: Web, scripts, games, hackathons, regular attendance at DevHouse Waterloo (1 year).

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

Economics and business: Attended the 2015 International Conference of Prices & Markets at UToronto, exhibited at OCE Discovery 2017 in Toronto, regular attendance at YouLaunch's Grub @ The Hub and entrepreneurship workshops (1 year).