

Davis Rimmel

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PROFILE

Free software specialist with 8 years of industry experience.

Independent free software author supporting 2,000 customers.

Systems and full-stack development; GNU/Linux, FreeBSD server administration; embedded programming; ISP telecommunications/networking; database design; data processing/analysis; customer support.

MEMBERSHIPS

Free Software Foundation (FSF), American Civil Liberties Union (ACLU), Electronic Frontier Foundation (EFF), Internet Archive.

WORK EXPERIENCE

Independent Free Software Author *Dec 2019-Present*
Self-Employed Milwaukee, WI

- Wrote a cross-platform [desktop application](#) licensed as AGPLv3+ with revenues exceeding \$2,000/month to free users from a proprietary cloud service. Support 2,000 customers plus 50%/week growth via email and [Reddit](#). Wrote scripts to manage operations, process payments, and send communications.
- Ported Parabola GNU/Linux-libre to reMarkable tablet, creating a [fully-free e-reader](#). Authored comprehensive installation manual. Donated 50% of disk image sales to FSF and Parabola.
- Published [projects](#) and engaged in online discourse to encourage media ownership.

Vice President of Engineering *Jul 2017-Dec 2019*
Stack41 Milwaukee, WI

- Circumvented \$15,000/year of proprietary software license fees for industrial control process customers by architecting a [data acquisition/reporting platform](#) (IoT) entirely from self-hosted free software.
- Saved over 250 call agent hours/week by cutting form submission time 10x in a 500,000-line insurance underwriting program. Diagnosed and patched ratsnest programming to lower database load by 50x.
- Managed private-cloud infrastructure running over 100 virtual machines for enterprise customers. Built tooling to create [reproducible](#) disk images, [switch configurations](#), data center rack schematics, and network monitoring with real-time email/SMS alerts.
- Authored employee procedures and documentation of retail cloud; drew schematics, organized infrastructure details and embedded dashboards into database/wiki hybrid. Wrote [web portal](#) for customer access.

Developer *Jan 2015-Jul 2017*
Misix Milwaukee, WI

- Wrote [recommender system](#) and ETL pipeline that generated four-billion vehicle auction recommendations/day.
- Maintained dataset of millions of vehicles, hundred-thousand buyers used with 12 internal projects.
- Wrote a dataflow processor/visualization [web application](#) and its data sharing service.
- Codified spreadsheets into reliable programs to support economists in [price forecasting](#).
- Migrated legacy servers to Docker containers. Maintained over 20 WordPress sites and wrote custom templates, functions.
- Instituted a data governance policy. Automated vulnerability reports.

ADDL. EXPERIENCE

IRC Moderator *Mar 2020*
LibrePlanet 2020 Remote

- Moderated 8 hours of online chat rooms for FSF's LibrePlanet 2020 convention.
- Ensured discussion remained constructive and respectful.

Canvasser *Jan 2020*
Bernie Sanders' Presidential Campaign Dubuque, IA

- Knocked on 180 doors before Iowa Caucus and convinced 8% to caucus for Sanders.
- Invited by citizens into their homes to discuss policy and progressive vision of American politics.

Forensics Coach (Speech & Debate Club) *Dec 2013-Apr 2015*
Hartford Union High School Hartford, WI

- Coached students after school based on standardized judging criteria.
- Accompanied the team to meets; judged participants from other schools.
- Produced [video media](#) that showcased the team's accomplishments.

Owner *Dec 2012-Nov 2014*
DR Bow Tie Company Richfield, WI

- [Created MVP](#) to carve niche in custom bow tie market. Served targeted advertisements on social media.
- Coded website. Illustrated graphic assets. Sewed bow ties. Processed and shipped orders.

SOFTWARE

Languages Shell/Bash, Python, C, Rust, HTML, CSS, JavaScript, PHP, SQL, SVG, XML/XSLT, Less, Sass, \LaTeX , R, Smalltalk, Perl, Objective-C, BASIC, GCODE

OS GNU/Linux, FreeBSD, OpenBSD, pfSense, QEMU, Proxmox

Databases PostgreSQL, MySQL, TimescaleDB, SQLite, ZFS, Syslog

Networking Pf, Tcpcdump, Wireshark, BIND, OpenVPN, SSH

Development Emacs, Git, Qt, Flask, SQLAlchemy, Node.js, D3.js, Bootstrap, Selenium

Analysis RStudio, Grafana, GNUPlot, GNU Octave, OpenVAS

Media ImageMagick, GIMP, Inkscape, Blender, Ffmpeg, FreeCAD

Administration PGP/GPG, GitLab, MediaWiki, DokuWiki, Request Tracker, IRC, LibreOffice, GnuCash

HOBBIES & INTERESTS

Computer, CNC programming and fabrication. 3D modeling/sculpture. Film photography. Media archival/conversion. Electronic design. Nature walks; going on trips and taking perspective. Electric vehicles. UFOs.

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