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<http://www.davisr.me/>

Objective

To mitigate ecologic catastrophe through direct environmental and political mechanisms, and to foster in people a reverence for Life and appreciation of Nature

Skills

High code quality: detailed commit histories, thorough documentation, reasoned designs
Unix system administration, automation: install, configure, maintain, boot process, kernel hacking, file system management, service management, VM cluster and cloud management, system housekeeping
Computer networking; familiarity with telecommunications
Abstract problem-solving
Public speaking and demonstration
Machining, fabrication, and CAD modeling

Languages

Shell, Bash, Python, Smalltalk, SQL, PHP, HTML, SVG, XML, CSS, Less, Sass, JavaScript, Rust, R, C, LaTeX, Perl, Common Lisp, Objective-C

Software

GNU/Linux, FreeBSD, OpenBSD, pfSense, ZFS, Proxmox, QEMU, PostgreSQL, MySQL, TimescaleDB, Wireshark, BIND, OpenVPN, OpenVAS, GitLab, DokuWiki, Request Tracker, Grafana, D3.js, Flask, SQLAlchemy, Node.js, Selenium, Bootstrap, ffmpeg, GNUPlot, ImageMagick, GIMP, Inkscape, Blender, Autodesk Inventor, office suites

Experience

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

Designed, wrote, and operated an industrial-IoT data acquisition and reporting platform built entirely upon Free Software; showcased demonstrations to customers. Managed cluster of virtual machines for infrastructure-as-a-service enterprise customers. Provided specialized programming, systems administration, and general gray matter services. Extended life of unsupported software and fixed mistakes of prior developers. Established replicable builds of in-house software. Authored a company wiki; wrote employee procedures; drew schematics, organized infrastructure details into databases; wrote a web portal for customer access. Planned and installed hardware, networks in Tier 3+ data centers. Performed on-call responsibilities; tape replacements.

Software Developer *Jan 2015–Jul 2017*
Misix, Milwaukee, WI

Wrote data processing tools and recommender system for vehicle-auction industry. Wrote a web-based dataflow processor and visualization platform; gave demonstrations to clients. Collaborated with economists for data analysis; codified their spreadsheets into reliable programs. Maintained an independent database of vehicles and buyers used for tens of internal programs. Automated vulnerability reporting. Instituted a data governance policy. Managed tens of development services with Docker, and migrated legacy servers to containers. Maintained tens of WordPress sites; coded templates and custom functionality.

Web Developer *Jul 2013–Jan 2015*
Self-employed, West Bend, WI

Developed and hosted websites for local companies. Learned how to communicate with clients to draw the same idea. Managed self-employment: found clients, performed development work and administrative business functions.

Owner *Dec 2012–Nov 2014*

DR Bow Tie Company, Richfield, WI

Created minimum-viable product to carve niche in custom bow tie market and capitalize upon popular resurgence. Coded a website with a PayPal/Google Docs ordering system; illustrated graphic assets. Identified markets on Facebook and served advertisements quickly creating a brand.

Volunteering

Canvasser *Jan 2020*

Bernie Sanders' Presidential Campaign, Dubuque, IA

Knocked on 180 doors before Iowa Caucus and convinced voters to caucus for Bernie by speaking about policy

Forensics Coach *Dec 2013–Apr 2015*

Hartford Union High School, Hartford, WI

Coached students after school, sometimes in groups, based on standard criteria for their selected category of speech. Accompany the team to meets; judge participants from other schools.

Rocket Club Mentor *Sep–Dec 2009*

Richfield Elementary School, Richfield, WI

Mentored and advised an after-school club of seventh and eighth-grade students qualifying for a national rocketry competition: construction, techniques, and general science

Education

Hartford Union High School *Sep 2008–Jun 2011*

Hartford, WI

Full AP course load. Graduated with honors. 3.7 GPA, average mark A-.

Co-curriculars: Forensics, Bowling League, Technology Help Desk, Library Assistant, National Honor Society. Frequently located in library backrooms and machine shop.

Memberships

American Civil Liberties Union

Electronic Frontier Foundation

Free Software Foundation

Hobbies

Computer and CNC programming, 3D modeling, circuit design, film photography, nature walks, going on trips and taking perspective, electric vehicles, Rocket League

Work examples are available online at <http://www.davisr.me/projects/>. References are available upon request.