

Daniel W. Lu

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Hello! Daniel is a multi-talented engineer who specializes in web-software, electronic hardware, and holds interests in music creation & production.

Skills Website & Software Development
Magento, Wordpress, SquareSpace, JavaScript, Node.js, Tesseract OCR,, D3.js, Github, test-driven development, Amazon Web Services, QA and unit testing, Photoshop, Lightroom, RAW non-destructive editing, UI, and UX. Interests in OpenCV, RTC, Web MIDI, WebDriver.

Music Production
Analog and digital synthesizer operation, audio routing, effect and mastering, MIDI controllers, low-latency audio transport, CoolEdit / Adobe Audition, GarageBand. Interests in Ableton Live and current AU & VST software plug-ins.

Electronic Repair
Point-to-point, through-hole and SMD soldering, vacuum tube circuitry, firmware upgrades (in-circuit, JTAG, EEPROM), digital multimeter, oscilloscope, Ohm's law, electrical safety, ability to read circuit diagrams and perform component level troubleshooting and repair.

Experience QA Engineer, Ace Metrix; El Segundo, CA – 2014-2017
Figuring out my way around a sophisticated, large-scale customer-facing SaaS application, run into bugs and dissect them (so our customers don't have to). Javascript, Node.js, Java Spring, Maven, CSS, Git, Selenium, Mocha and Chai assertion, test automation, YouTrack, documentation and reporting, plus the mindset of an engineer / exterminator. Black-box testing and white-box testing (when appropriate). Implemented customized browser-side and server-side testing automation.

Web Designer, Independent, South Pasadena, CA – 2000-2013
Provides initial consultation, design, deployment, and maintenance of media-rich web sites.

Lead Technician, Starbase Net Computer; South Pasadena, CA – 1999-2013
Provides on-location and remote computer support, system hardware & software troubleshooting and repair, malware removal, networking and equipment deployment. Designed test procedure to duplicate client-side issues, and documented the issue with cause, symptom, and solution. Perform training and knowledge transfer for new employees.

Education Pasadena City College, Pasadena, CA — Computer & Electrical Engineering, 2001-2013

Extra! Bilingual: English, Chinese (Mandarin)
Interests in digital signal processing (DSP) and amateur radio