

Miles Watson

miles@milescwatson.com • (415) 847-7247 • 41 Elm Ave, San Anselmo, CA 94960

Aug 27th, 2021

Dear Hiring Team,

I saw your posting for the position of IT Technician on Craigslist. I'm applying because the qualifications align really well with my skills and experience.

I have 5+ years of experience running Linux servers in the context of web hosting, virtualization, networking, embedded systems and cloud virtual machines. I am familiar with the common Linux utilities such as Bash, Cron, Vim, Apt etc. I have experience with Docker as well. I currently maintain several physical Linux servers as well as cloud virtual machines.

I am familiar with several AWS services through my experience as a full-stack web application developer; mainly EC2, S3, RDS and DynamoDB.

After graduating from Seattle University this month, I'm seeking a full time career position at a company like yours. I really enjoy building and maintaining IT systems, and learning about new technologies. I hope to learn more about your company and the position, and perhaps go into more specifics on my experience and projects I have worked on.

Best regards,

A handwritten signature in black ink that reads "Miles Watson". The script is fluid and cursive, with the first letters of "Miles" and "Watson" being capitalized and prominent.

Miles Watson

Miles Watson

miles@mileswatson.com • 41 Elm Ave, San Anselmo, CA 94960 • (415) 847-7247 • LinkedIn/mileswatson

Summary of Qualifications

- 5+ years professional and academic experience with data rich full-stack software application development, networking, embedded devices, deployment, testing, and troubleshooting.
- Strong written, verbal and technical communication skills. Motivated to work in a hard-working, fast-paced technical environment.
- Interested in roles related to my technical work experience and knowledge in business, analytics, and finance topics.
- Experience collaborating with customers to design, develop, deliver and integrate software systems that solve their problems.

Professional Experience

Full Stack Software Application Development

Self-Employed

2010—Present, Seattle, WA and Bay Area, CA

- Managed outreach, sales, project definition, software architecture, development and testing. Variety of projects in fields including: finance, Internet of Things (IoT), control systems, and inventory management.
- Worked on technical consulting projects; including web development, embedded systems, and programming.

Sample Project: Vineyard IoT system

- Created an industrial embedded system for a winery to track temperatures and control fans in multiple buildings.
- Included the ability to remotely control the entire system, and view temperature analytics valuable to the wine-making process through a cloud-based IoT platform that currently processes over 600,000 data points per month.
- Improved the economics of barrel and bottle storage; reduced labor through temperature control automation, improved wine quality

Team Member

Solar Decathlon Africa, University of Casablanca, Morocco

August 2019—September 2019, Casablanca, Morocco

- Co-lead the development of a system to monitor and control energy loads in the university's entry in the Solar Decathlon Africa smart building contest. "BeagleBone" single board computers were used as the host for a system that monitored PV inverter, power usage, temperature and humidity and controlled the air conditioning, lights, dishwasher and other loads. I developed the backend data model and created an innovative user interface with energy visualization graphics and a natural language interface that could interact with the system in English, French and Arabic. Primarily programmed with Node.js and React.
- Collaborated with building architects, electricians, and event administrators to finalize designs and install and test various building systems in an accelerated schedule.
- The Solar Decathlon Africa is part of an expansion of a program started by the U.S. Dept of Energy (DoE) in 2002. It is a collegiate competition that challenges student teams to design and build highly efficient and innovative buildings powered by renewable energy. The winners will be those teams that best blend architectural, design and engineering excellence with innovation, market potential, building efficiency, and smart energy production. <https://www.solardecathlonafrica.com>

Intern

Power Standards Lab

June 2017—September 2017, Alameda, CA

- Key contributor to the engineering teams that designed, manufactured and commissioned the PSL *Grid Thumper*™, a tool for testing, measuring and characterizing the stability of the electric grid. The shipping container sized device controls large precisely timed pulses of electric current, perturbing the steady-state voltages to reveal unique stability characteristics of the local grid. The project was funded by the Defense Advanced Research Projects Agency (DARPA) to study cyber-physical security of the electric grid.
- Primary responsibility was the testing and configuration of Linux-based microcomputers.
- Collaborated extensively with software, circuit board engineering, and manufacturing teams.
- Other responsibilities included network configuration and factory acceptance testing.

Principal

Miracle Mile Computer & Networking

January 2013—September 2015, San Anselmo, CA

- Ran a computer repair shop specializing in PC and Apple computer upgrades, and small business networking. Increased level of responsibility from unpaid intern to owner in less than 2 years.
- Improved efficiency by implementing a CRM solution to track and automate client outreach, invoicing, and repair jobs.
- Worked with a significant number of customers on often complex computer issues; provided a high level of service and satisfaction.
- Gained technical knowledge as well as entrepreneurial experience in customer service, marketing, accounting, and organization.
- Used relationships established with clients to gain opportunities doing interesting consulting work.

Intern

Lawrence Berkeley National Laboratory

June 2014—September 2014, Berkeley, CA

- Research associate on a project to improve commercial building energy efficiency by quantifying building occupancy in real time.
- WiFi connections on laptops and cell phones were scanned and used as a proxy for occupancy. Used the open-source network scanning software Nmap and Python to create a prototype. Occupancy data is used by automated air-conditioning and lighting systems.
- This network-scanning approach to estimating building occupancy was later funded with \$2MM from the California Energy Commission

Education

Seattle University

Bachelor of Arts in Business Administration Degree, Finance Major

Coursework including Calculus 1&2, Computer Science (Intro and Data Structures)

In Progress: Splunk Core Certified Power User Certification

Additional Skills & Interests

Technical Skills: Experience with Node, React, Python, Linux, Bash, SQL, AWS and GCP services, Regex, Excel Certification

Interests: Mountain biking, Reading, Traveling