

David Tucker

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Education

UNIVERSITY OF CALIFORNIA, SANTA CRUZ, CA.

Bachelor of Science, Computer Engineering, Networks

Bachelor of Arts, Computer Science

2010-2014

Skills

I can build and administer computer systems and networks, and I have experience with (from most to least):

HYPERMEDIA

- GeoJSON
- HTML
- CSS
- SQL
- Apache
- XML

PROGRAMMING

- C
- Python
- Perl
- JavaScript
- PHP
- Java
- Haskell

GUI

- GIMP
- Wireshark

PROTOCOLS

- Bitcoin
- TCP/UDP
- DNS
- NAT
- HTTP
- TLS/SSL
- SSH
- 6in4/6to4
- SNMP
- ARP
- DHCP
- FTP

Experience

LAWRENCE LIVERMORE NATIONAL LABORATORY

2013-2014 • Santa Cruz, Ca.

I am currently working on a Senior Design project proposed by LLNL that deals with data fusion and networked sensors. Our team is building a mobile and web application to act as an interface between a custom local sensor and a remote database. Gathered data will be merged with publicly available information to allow users to compare and give relevance to massive amounts of unorganized data.

NETWORK ANALYST — UCSC NETWORK OPERATIONS CENTER

2013-2014 • Santa Cruz, Ca.

I have been working with the administrators of the ucsc.edu domain to create an application to help synchronize their layer 2 network devices with an asset management database. This has been my first professional work experience, and it has taught me about working with industrial systems collaboratively and in real-time. It also showed me the importance of revision control.

WEB DEVELOPER — ΣΜΔ GAMMA CHAPTER

2012-2013 • Santa Cruz, Ca.

I worked with the webmaster of a pre-medical fraternity at UCSC to create sigmamudelta.com/gamma which was the first site I built utilizing the WordPress platform. It includes a custom theme and MySQL database integration. Development mandated weekly meetings regarding progress and implementation preferences.

WEBMASTER — SANTA CRUZ SOUND

2011 • Santa Cruz, Ca.

I wrote the site at santacruzsound.com entirely in HTML 5. It is very basic, but uses powerful applications of JavaScript and CSS as well as standard error-handling and mobile device optimization to create a responsive user experience. Without JavaScript, the site degrades gracefully into a single page which is optimal for speed.

WEBMASTER — AUSTIN TAILOR CLOTHING & CO.

2010-2011 • Danville, Ca.

austintailor.com was my first project to use SSL, a custom cart and user management system, merchant services

provided by Authorize.net, and a custom inventory management system based on MySQL. It taught me security and the benefits of employing widely used and battle-tested technologies instead of reinventing the wheel, per se.

WEBMASTER — SAROOR INDIAN CUISINE

2010 • Walnut Creek, Ca.

One of my simpler projects, saroorindiancuisine.net showed me more of the business side of development and the benefits of networking. It is similar to (but predates) my work for Santa Cruz Sound.

WEBMASTER — JOYCE FREEMAN, B.S. CCHT

2010-2012 • Pleasant Hill, Ca.

inner-calm.net was a static site used by Joyce for her professional hypnotherapy practice. It was originally created by another developer, and I was able to clean up the code and validate the site after I began administering it. The experience showed me what working with others in a technical context can be like.

WEBMASTER — BAYFITTED

2009-2012 • San Francisco, Ca.

I built bayfitted.com for a custom clothing store. It features many custom graphics, a custom user management system, Paypal e-commerce, and a mobile site optimized for iPhone and Android users. This was my first project and I grew much more familiar with AMP development environments, Photoshop/GIMP, domain registration and hosting, and web standards because of it.

COUNSELOR — CAMP CONCORD

2009-2010 • South Lake Tahoe, Ca.

I attended Camp Concord for eleven years beginning when I was 8. In 2009, I worked as a Junior Staff employee which meant washing dishes, serving food, cleaning bathrooms, bussing tables, and assisting counselors in the cabins. The following year, I was a Youth and Family Camp Counselor which required leadership and enthusiasm as we took ten 8-16 year-olds rafting, canoeing, hiking, and more. I was also charged with waterfront coordination regarding lifeguards and safety equipment.

LIFEGUARD — AQUATIC PARK

2008-2010 • Pleasant Hill, Ca.

My first job entailed ensuring the safety of pool patrons and giving children private swim lessons. After my first summer, I began off-season work and cleaned locker rooms each night. Weekly trainings were mandatory and tested our knowledge of our training. We were required to know our job inside and out.