

# David M. Tucker

[www.linkedin.com/in/dmtucker](http://www.linkedin.com/in/dmtucker)

[www.github.com/dmtucker](http://www.github.com/dmtucker)

[www.david.tucker.name](http://www.david.tucker.name)

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## Education

**UNIVERSITY OF CALIFORNIA • SANTA CRUZ, CA.**

2010-2014 • Undergraduate

- Bachelor of Arts, Computer Science
- Bachelor of Science, Computer Engineering, Networks

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## Skills

I can design, assemble, and administer computer systems and networks, and I have experience with the following technologies:

### GUI

- GIMP

### FORMATS

- JSON
  - GeoJSON
- HTML
- CSV

### STYLESHEET LANGUAGES

- CSS

### PROGRAMMING LANGUAGES

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

### PROTOCOLS

- DNS
- IPv4/IPv6
- NAT
- 6in4/6to4
- Bitcoin
- HTTP
- TCP/UDP
- TLS/SSL
- SSH
- SNMP
- ARP
- DHCP

## Experience

**CAPSTONE SENIOR DESIGN PROJECT • SANTA CRUZ, CA.**

2013-2014 • Fusion/Visualization Lead, Treasurer

Four teammates and I created OpenFusion, a project proposed by Lawrence Livermore National Laboratory that deals with data fusion and networked sensors. Together, we built a mobile and web application to act as an interface between a custom local sensor and a remote database. Gathered data could then be merged with publicly available information to allow users to compare and relate massive amounts of unorganized data.

**UCSC NOC • SANTA CRUZ, CA.**

2013-2014 • Network Analyst

I worked with the administrators of the ucsc.edu domain to create an application meant to synchronize their layer 2 network devices with an asset management database. It was my first professional work experience in this field, and it taught me about working with industrial systems cooperatively and in real-time. It also showed me the importance of revision control.

**ΣΜΔ GAMMA CHAPTER • SANTA CRUZ, CA.**

2012-2013 • Web Developer

I collaborated with the webmaster of a pre-medical fraternity at UCSC to create [www.sigmamudelta.com/gamma](http://www.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.

**SANTA CRUZ SOUND COMPANY • SANTA CRUZ, CA.**

2011 • Webmaster

I wrote the site at [www.santacruzsound.com](http://www.santacruzsound.com) entirely in HTML 5. It is very basic, but uses robust 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.

**AUSTIN TAILOR CLOTHING & CO. • DANVILLE, CA.**

2010-2011 • Web Developer

[www.austintailor.com](http://www.austintailor.com) was my first project to use SSL/TLS and merchant services. It included a custom cart, user database, and inventory management system. It taught me basic security and the benefits of employing widely used and battle-tested technologies instead of reinventing the wheel.

**SAROOR INDIAN CUISINE • WALNUT CREEK, CA.**

2010-2012 • Web Developer

One of my simpler projects, [www.saroorindiancuisine.net](http://www.saroorindiancuisine.net) showed me more of the business side of development and the benefits of networking. It is similar to my work for Joyce Freeman and Santa Cruz Sound Company.

**JOYCE FREEMAN, BS, CCHT • PLEASANT HILL, CA.**

2010-2012 • Webmaster

[www.inner-calm.net](http://www.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.

**BAYFITTED • SAN FRANCISCO, CA.**

2009-2012 • Webmaster

I built [www.bayfitted.com](http://www.bayfitted.com) for a custom clothing store. It features many custom graphics, a custom user management system, and Paypal e-commerce. This was my first project, and I grew much more familiar with AMP environments, Photoshop/GIMP, domain registration, web hosting, and IETF standards because of it.

**CAMP CONCORD • SOUTH LAKE TAHOE, CA.**

2009-2010 • Counselor, Lifeguard

I attended Camp Concord for eleven years. 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, my role as a Youth and Family Camp Counselor 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.

**AQUATIC PARK • PLEASANT HILL, CA.**

2008-2010 • Lifeguard, Aquatic Aide

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. Mandatory weekly trainings tested my training and required me to know the job inside and out.