

David M. Tucker

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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

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 SOE • SANTA CRUZ, CA.

2014 • Reader

During my final quarter at UC Santa Cruz, I helped staff the Introduction to Python programming class in the Computer Science department. In addition to evaluating submitted work, I frequently assisted students via the class forum and held review sections. It showed me a way to coordinate a large number of people, but, more importantly, it taught me how to better communicate ideas.

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.

SANTA CRUZ SOUND COMPANY • SANTA CRUZ, CA.

2011 • Webmaster

I wrote the site at 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.

SAROOR INDIAN CUISINE • WALNUT CREEK, CA.

2010-2012 • Web Developer

One of my simpler projects, www.saroorindiancuisine.com 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 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 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.