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## SKILLS/ABILITIES

### **Student Systems Administrator** – <http://www.tjhsst.edu/admin/>

- Maintain and administer production systems in the TJHSST Computer Systems Lab, probably the premier high school computing facility, featuring approximately 45 Gentoo Linux workstations, 20 Debian Linux and Solaris 10 servers
- Sun Administrator/Technology Coordinator – Primarily responsible for maintenance of core Cisco switch, Sun Solaris systems, network of approximately 150 thin-clients. Production services include Sun Ray, LDAP, NFS file servers, CUPS
- Also responsible for domain root DNS servers, DHCP, student Intranet, and the student e-mail system
- Technologies used include Linux (Debian, Gentoo), Solaris 10, Apache2, PHP, MySQL, Kerberos, AFS, DNS, DHCP, Postfix, Sun Directory Server
- Won the Richard Slivoskey Student Government Association grant for the Computer Systems Lab to build versatile multimedia carts (\$1000)
- Won a Sun Academic Excellence Grant for computers and servers valued at more than \$388,000. Written with another student; very little teacher involvement.
  - o <http://www.sun.com/customers/servers/tjhsst.xml>
  - o <http://tjpartnershipfund.org/docs/TJPF%20Back%20to%20School%20Newsletter%202008.pdf>
  - o <http://commweb.fcps.edu/newsreleases/newsrelease.cfm?newsid=780>
  - o [http://tjhsst.edu/admin/livedoc/index.php/Sun\\_Academic\\_Excellence\\_Grant\\_\(AEG\)](http://tjhsst.edu/admin/livedoc/index.php/Sun_Academic_Excellence_Grant_(AEG))

### **System and network administration**

- Debian Linux, Gentoo Linux, Sun Solaris 10, Open Solaris, Microsoft Windows Server 2003, Cisco IOS
- Knowledge and use of Microsoft Windows (2000, XP, 2003 Server, Vista), Linux (other distributions), Macintosh (OS X)

### **Computer languages/standards**

- Extensive knowledge of Java, HTML, Visual Basic, Ruby, C
- Knowledge of PHP, MySQL, Python
- Extensive knowledge of Microsoft Office (Word, Excel, Powerpoint, Outlook, Access), Mozilla (Thunderbird, Firefox, Sunbird), Lotus Notes

### **Audiovisual equipment**

- Sound technician for live performances, including musicals *The Music Man*, and *Into the Woods*. Performances for St. Mark's Catholic Church, Vienna, and All Saints Catholic Church, Manassas.
- Experience with sound mixers, wireless equipment (Audio-Technica, Sure, Sennheiser), amplifiers, projectors, video playback equipment.

### **Experimental laboratory procedures**

- Micropipetting, sterile technique, bacterial culture technique, DNA restriction and analysis, gel electrophoresis, DNA methylation, polymerase chain reaction, bacterial transformation, purification and identification of plasmid DNA, restriction mapping

### **Language**

- English (first language), Russian (AP level, moderate)

## WORK HISTORY

### **Hydrologic Technician**

June 2007 – Present

*US Geological Survey, Water Resources Discipline, Reston, VA*

Assisted in developing databases necessary for several studies related to the use of isotopes to understand the hydrologic process and nutrient concentration in the Potomac River and surrounding tributaries. Combined data from existing in-house data sets as well as lab reports that were received to incorporate as well as information retrieved from wells. Produced graphs and statistical summaries critical to primary screening of the data. Also developed a program using Visual Basic to control various elements of a furnace to extract water from various samples, including hair.

**Fully Automatic Timing (FAT) Operator** Winter 2005 – Present  
Ran track meets for the VHSL Northern Region, Northern Virginia Cross Country and Track and Field Coaches Association, and Potomac Valley Track Club (AAU) using HyTek Meet Manager, FinishLynx for the Fully Automatic Timing system

## EDUCATION

**High School** September 2005 – June 2009  
*Thomas Jefferson High School for Science and Technology, Alexandria, VA,*  
<http://www.tjhsst.edu>

Classes taken include accelerated Computer Science, AP Computer Science AB, Artificial Intelligence, Computer Architecture, Parallel Computing 1, AP Calculus AB, AP Statistics.

**Middle School** September 2003 – June 2005  
*Kilmer Middle School, 8100 Wolftrap Road, Vienna, VA 22182 – <http://fcps.edu/KilmerMS>*  
Attended Gifted and Talented (GT) program.

**Summer Technology Institute (STI)** Summer 2004  
*Thomas Jefferson High School for Science and Technology (TJHSST)*  
Classes taken include 2-week sessions on Biotechnology, Computer Assisted Design and Postage Stamp II.

## HONORS/AWARDS/ACTIVITIES

**Russian Honor Society** Fall 2007 – Spring 2009

**Teknos Editor** Fall 2006 – Spring 2009  
Member of the editorial staff of Teknos, Jefferson's annual journal of science, mathematics and technology presenting research by TJHSST students. Senior editor during 2008-2009 school year.

**Sun Academic Educational Grant Recipient** January 2008

Successfully wrote grant and received \$388,048 worth of hardware from Sun Microsystems. Written during junior year, with a senior partner; no teacher involvement.

**Star Award recipient, US Geological Survey, Water Resources Discipline** Summer 2007 and 2008

In recognition of exceptional work and performance of duties. Monetary award.

**Down Syndrome Awareness and Research** Fall 2007 – Present  
Co-organizer of DSAR, a student-extracurricular awareness activity, TJHSST.

**Russian Essay Contest/Spoken Awards** Fall 2007, Spring 2007, Fall 2008  
Recipient of awards for essay and spoken Russian competitions

**Tae Kwon Do, Black Belt** Fall 2005

**St. Mark's Catholic Church Volunteer** Summer 2006, 2007  
Ran the sound board for the annual summer musical. Included use of 14+ wireless microphones and a separate sound board for the pit orchestra. I also lector and altar serve for church Masses.

**Member of CLC** Spring 2005 – Present  
Member of Catholic Life Communities, participated in group workshops and lead discussions.

**US Geological Survey Volunteer** 2000 – Present  
Helped represent the US Geological Survey at the Fairfax County Fair (2006, 2007)

**Marine Corps Marathon Volunteer** Fall 2001, 2002, 2003, 2004, 2005