

# Colby Goettel

## Experience

### **Project manager**, *BYU Office of IT and the FBI, September 2013–present*

Senior capstone project. Spiral model. Developed a real-time syslog analysis system to detect, analyze, and learn patterns, and report anomalies. Red Hat stack including Logstash, elasticsearch, and Kibana.

### **Teaching Assistant**, *School of Technology, BYU, April 2013–present*

TA for both computer networking and operating systems. Typeset class materials (e.g., homework, labs, exams). Assisted the professor in improving course homework and labs. More intimately learned networking and OS theory and principles. Ran the weekly labs and helped students research and find answers. Substituted for teacher when necessary.

### **Computer programmer**, *Harold B. Lee Library, BYU, April 2010–August 2013*

Programmed over 400 utilities to generate custom reports for librarians. These scripts make API and database calls, then parse the output to specifications. Scripts were predominantly written in Perl with extensive usage of regular expressions, but AWK and Bash scripts abound. Utilized PHP, HTML, and CSS for web applications. Some system administration. Provided general computer support to library faculty.

### **Circulation staff**, *Howard W. Hunter Law Library, BYU, November 2009–April 2010*

Document management. Gained familiarity with court briefs. Improved digitizing system.

### **Lab technician**, *BYU Physics Department Machine Shop, BYU, April 2009–August 2009*

General woodwork and metalwork, including welding and grinding. Cleaned shop, moved and organized thousands of pounds of scrap metal and tools, learned problem solving skills.

## Education

B.S. degree candidate, Information Technology, Brigham Young University

- Minor: Biblical Hebrew
- Expected graduation: August 2014
- Relevant coursework:
  - IT 515R – Systems Administration. Set up a corporate network including Active Directory, Puppet, SNMP, Nagios, and AlienVault OSSIM. Extensive documentation.
  - IT 529 – Advanced Networking. Network management with Zenoss and SNMP. Extensive documentation. Researched how to use Wireshark to monitor pre-VLAN traffic. Network security including man-in-the-middle attacks and ARP poisoning. Multi-vendor router and VLAN configuration.

## Languages and technologies

Computer	Linux, Perl, Git, Zenoss, VMWare, regex, SNMP, L <sup>A</sup> T <sub>E</sub> X, Nagios, Cisco IOS, Bash, AWK, sed, MySQL, C++, Wireshark, Python, apache, HTML+CSS, DNS, TCP/IP, UDP
Spoken	French (working proficiency)
Written	Biblical Hebrew (working proficiency), Imperial Aramaic (working proficiency)
Strengths	Linux, L <sup>A</sup> T <sub>E</sub> X, Perl, regex

## Awards and positions

- ORCA Grant recipient for project entitled *Typesetting a Hebrew Bible Translation*
- IT Student Association, treasurer, September 2013–present
- Eagle Scout with Silver Palm