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[Overview]

- Web developer for clients via Wordpress theming and application development.
- Thinker, [hacker »](#), and cryptographer.
- Work experience at the Rochester Clinic and MLTGroup.
- System administration on Linux, Mac OS X, and Windows nodes.
- Supporter of the Oxford Comma.

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## [Technologies]

### Programming Languages:

Go, Ruby, XML/HTML5, CSS3, JavaScript, PHP, Python, Java

### Operating Systems:

Linux [Ubuntu, Mint, Gentoo, Fedora], Mac OS X, Windows (XP – 10)

**Desktop Environments:** Cinnamon, Screen, Fluxbox, GNOME Shell, Unity, KDE

**Project Management:** Git, [GitHub »](#), Make

**Editors:** Brackets, Gedit, Vi, Emacs, Nano, Eclipse

**Servers:** Apache, MySQL, MariaDB, MSSQL, SSH, Nginx, FTP, SMB

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## [Work Experience]

### [Rochester Clinic »](#) 2014-2015

**Rochester Clinic** is a family owned clinic based in Rochester, Minnesota. Duties included application troubleshooting, installation of new systems, and virus removal on a mixture of Windows platforms (Windows Vista – 8.1 Professional, Server 2008). Accomplishments:

- **Patient Data Migration (2015):** migration of 12k patients between two EMRs using Ruby. Skills: Database manipulation, CSV, implemented [C-CDA »](#) standard, XML-to-PDFs.
- **Tech support:** providing technical support of Windows Professional and Server editions in a production environment.
- **Part-time work:** working on a mixed schedule to enable minimal downtime.
- **Wordpress Migration:** converting an existing DreamWeaver-based site design to WordPress.

### [MLTGroup »](#) 2013

**MLT Group** is a website and advertising design company based in Rochester, Minnesota. Duties included maintaining the in-house CMS and building out new websites for customers. Accomplishments:

- **Application continuation:** enhancing and keeping in-house CMS systems up and running.

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[Products]

[Tourneypicks](#) 2011-present

Tourneypicks is a custom web interface tracking NCAA tournament picks. This software tracks and automatically scores the rounds, greatly simplifying management of the pool for the client. Users can easily see their standings in the pool as compared to the other users and compare their choices to the results. Accomplishments:

- **Complete redesign (2015):** from-scratch redesign involved improving old code and establishing new goals for the software.
- **Client relationships:** learning the nuances of navigating the client/developer relationship.
- **Time management:** delivering a complete product on a fixed deadline.
- **Customer support:** supporting the client's customers across a variety of devices and platforms.
- **Wordpress:** embedded Wordpress with a minimal theme to match rest of site.

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[Projects]

vCAT:

Cryptanalysis of Vigenere ciphers using [Turing's](#) » "The Applications of Probability to Cryptography".

- Data-centric reactive interface
- Implementing older algorithms
- Cracking [Kryptos](#) »

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## [Education]

### Iowa State University (2015 – present)

- Majors: Computer Science and Mathematics
- Grade: Freshman
- Credits: 43

### Secondary School (2010 – 2015)

Homeschooled: 4th – 12th Grades

Century High School: 9th – 12th Grades

ACT: 35

### Tech Camps:

- HackISU – 2015
- CDC – 2015
- Iowa State: Explorations Introduction to Hacking Camp – 2012
- iD Tech Camp: iPhone App Development – 2011
- Winona State Robotics Camp – 2010
- U of MN Rochester: Introduction to C++ Camp – 2008

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[Activities]

Tennis/Table Tennis: 5 years

Church (acolyte, crucifer): 7 years

Salvation Army Kettle Ringing (with instruments): 4 years

Ubuntu Forums: Over [600](#) » posts.

Boy Scouts: Life Scout; scouting since Cub Scouts

National Honors Society: 2 years

References available upon request.