

## Alexander Scheel

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[Ubuntu Forums »](#)  
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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.
- Dedicated violinist with 11 years of chamber, orchestral, and solo music.
- Supporter of the Oxford Comma.

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### [Technologies]

#### Programming Languages:

Go, Ruby, HTML5, CSS3, JavaScript, PHP, MySQL, XML, JSON, Python, Perl, C++, Bash, Java

#### Operating Systems:

Linux [Ubuntu, Mint, Gentoo, Fedora], Mac OS X, Windows (XP – 8.1)

**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, Node.js, FTP, SMB

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### [Work Experience]

#### [Rochester Clinic »](#) 2014–present

**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. Outputs from a raw database to demographics .CSV, patient information to the [C-CDA »](#) standard, progress notes from XML objects to PDFs, modifies filesystem structure of attached documents to organize by chart number. Learning project for Ruby.
- **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:

- **Team members:** learning to interact with others in a professional setting.
- **Time management:** arriving at work prompt and completing work by a deadline.
- **Application continuation:** enhancing and keeping in-house CMS systems up and running.

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## [Products]

[Tourneypicks.org »](#) 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.

[Vacava's Invitational »](#) 2012

**Vacava** provides a cloud environment for rapid business application development. Placed second in non-developers category with a website targeted towards tracking project milestones. Accomplishments:

- **Competitions:** preparing an application/code for use in a competition.
- **Business:** viewing in their eyes and the different needs.

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## [Projects]

**Snakey:**

A fun recreation of Google's Old Snakey, hosted on [GitHub »](#).

**JavaScript Libraries:**

Various libraries centered around new HTML5 features in a dynamic (PHP) environment.

- [jCanvas »](#) is a single function used to draw HTML5 Canvas saving space via outsourcing function calls (`jCanvasDraw(canvas, ctx, "commands")` VERSUS `ctx.beginPath()...ctx.endPath()`, etc).
- [jPage »](#) is a dynamic page state library that supports complex GET/POST requests and interaction with external data.
- [jTable »](#) is a feature filled dynamic table library featuring sorting and searching with rich display capability based on jCanvas and events via jQuery.

**Cryptographic Suite (old):**

A partial cryptographic suite built in Python/nCurses centering around ciphers and eventually cryptanalysis. Mostly for learning classes in Python, expand knowledge of cryptography.

- Python class support
- nCurses development
- String manipulation

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## [Education]

### Schooling:

- Iowa State University (future)
- Homeschooled (4th – Present) [part time]
- Century High School (9th – Present) [part time]

Grade: 12th Grade

### AP Tests:

AP Physics 1 (2015), AP Physics 2 (2015), AP Physics C: Mechanics (2015), Literature and Composition (4), Macroeconomics (4), Calculus (5), Computer Science (5), Human Geography (5), Language and Composition (5), United States History (5)

### Letters:

- Model United Nations – 2013, 2014
- Orchestra – 2014
- STEM – 2014

### Tech Camps:

- 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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## [Music]

### Violin (Private Lessons):

11 years

### Minnesota Youth Symphonies:

3 years

### Artaria Chamber Music School:

1 year

### Southeastern Minnesota Youth Orchestra:

3 years

### Solo Repertoire:

- H. Wieniawski – Violin Concerto No. 2, Op. 22, I: Allegro moderato
- P. Tchaikovsky – Violin Concerto in D Major, Op. 35, III: Finale: Allegro vivacissimo
- A. Khachaturian – Violin Concerto in D Minor, I: Allegro con fermezza
- M. Bruch – Violin Concerto No. 1 in G Minor, I: Vorspiel
- J.S. Bach – Unaccompanied Sonatas and Partitas (select movements)

### Chamber Repertoire:

- E. Schulhoff – Five Pieces for String Quartet, I: Viennese Waltz, III: Czech folk music, V: Tarantella
- F. Mendelssohn – String Quartet No. 2, Op. 44, I: Allegro assai appassionato
- J. Haydn – String Quartet No. 5 in F minor, Op. 20, I: Allegro moderato
- F. Schubert – String Quartet No. 14 in D Minor, "Der Tod und das Mädchen", I: Allegro, II: Andante con moto
- J. Brahms: Piano Trio No. 2 in C Major, (all movements)
- A. Glazunov: String Quintet No. 39 in A Major, IV: Finale: Allegro moderato – Allegro vivo

#### Music Camps:

- [Stringwood »](#) - 2013, 2014
- [Sid and Mary Foulger International Music Festival »](#) - 2014
- [Upper Midwest String and Chamber Music Conference »](#) - 2011, 2012

#### [Rochester Music Guild » Competitions:](#)

- Senior Division, 3rd place - 2013, 2014
- Junior Division, 1st place - 2012
- Junior Division, 3rd place - 2011

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#### [Other Activities]

**Tennis/Table Tennis:** 5 years

**Church (acolyte, crucifer):** 5 years

**Salvation Army Kettle Ringing (with instruments):** 4 years

**Model United Nations (Minneapolis convention):** 3 years

**Ubuntu Forums:** Over [600 »](#) posts.

**Boy Scouts:** Life Scout; scouting since Cub Scouts

**National Honors Society:** 2 years

**References available upon request.**

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Valid HTML5, CSS3.

