

## Kevin Klaes

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## Skills

### Languages

- **Python** - FIXME.
- **Javascript** - Built custom data filtering and exporting solution.
- **SQL** - Experience building queries for when a framework ORM doesn't provide the necessary
- **HTML/CSS** - Two years experience writing basic HTML and CSS. Have used many templating/preprocessors to reduce the ... FIXME.

### Development Frameworks and Libraries

- **Django** - Two years experience enhancing multiple applications. Rearchitecting and designing solutions to
- **jQuery** - Two years experience manipulating DOM to enhance end user experience.
- **Bootstrap 2 and 3** - Used to quickly prototype new ideas and responsive websites.

### Testing Frameworks

- **Python (unittest, nose)** - Unit tested Django application and Python scripts to ensure data
- **Javascript (Jasmine)** - Unit tested Javascript code to ensure
- **Browser (Selenium)** - Selenium was used to test all the pieces of code for a specific user story or use case.

### Development Tools and Methodologies

- **Git + Github** - Version control is an indispensable tool and I strongly adhere to "commit early, commit often." Frequently consulted to assist coworkers with Git workflow and features.
- **Test Driven Development** - After implementing TDD, the applications I work on daily experienced a 75% reduction in error pages. TDD has provided more time to develop new features and worry less about introducing regressions.
- **Ansible** - Used to package and deploy Django and Node.js applications quickly and easily.
- **MySQL/SQLite3** - Databases of choice.

## Experience

### University of Minnesota: Twin Cities

#### Web Developer and Systems Administrator (January 2013 - Current)

- Maintain and improve internal department applications with a backend in Django. Applications utilized HTML5 and Javascript/Jquery to enhance the user application. Implemented a REST API using [Django Rest Framework](#) to decouple frontend and backend code.

- Implemented test driven development for all new features and wrote tests for legacy code after documenting the purpose and evaluating the functionality.
- Collect and detail requirements for new and existing features. Self initiated effort to improve undocumented code and increase compliancy with best standard coding practices (PEP8, DRY, TDD).
- Secure web applications by introducing and working with the application owners and users to define access control the specific parts of their application. Encouraged users to export less data by implementing features to reduce the need to export.
- Advise and work with faculty to develop professional websites; primarily [Math Insight](#); improve useability, and encourage software development best practices.

#### **Student Web Developer (March 2012 - January 2013)**

- Rebuilt department event application and integrated with Google Calendar to increase visibility to students and encourage subscriptions.
- Basic tech support tasks including replacing and rebuilding desktop machines, troubleshooting printers, and triaging and solving issue tickets.

#### **Rainbow Health Initiative**

##### **Volunteer Web Developer (July 2013 - September 2013)**

- Worked with Rainbow Health Initiative to create and deploy an online survey and collect data on the GLBT community in Minneapolis.
- Provided backend code to collect data and data export solutions.

#### **Learning RX**

##### **Brain Trainer (May 2012 - October 2012)**

- Trained students according to LearningRX training procedures
- Documented progress of students through the LearningRX program

#### **Education**

##### **Bachelor's of Science in Mathematics**

##### **University of Minnesota: Twin Cities (Spring 2013)**

- Coursework at the University of Minnesota focused on actuarial mathematics, intermediate economics courses, and cryptography. Attended the University of Minnesota: Duluth from Fall 2004 until Spring 2006 with the intent to major in Computer Science.

##### **High School Diploma**

##### **Math and Science Academy (June 2004)**

- Participated in PSEO program and attended Inver Hills Community College for the 2003-2004 academic year to fulfill my remaining high school requirements.