

# Erik Wichern

1309 Valley Avenue, Winchester, VA 22601  
540.454.1194  
erik.wichern@gmail.com

usingname.space  
github.com/ewichern  
bitbucket.org/ewichern  
linkedin.com/in/ewichern

## Summary

- Creative and resourceful C++/Java developer with a comprehensive educational background in theoretical concepts of computing, object-oriented programming, analysis, and design, mathematical foundations of computer science, and principles of programming languages.
- Results-oriented team player with Software Development Life Cycle (SDLC) experience – familiar with practices used in Agile, Scrum, and Extreme Programming.
- Articulate critical thinker who can clearly communicate ideas orally and in writing. Fluent in the use of Unified Modeling Language (UML) for documentation.
- Consistent achiever and self-motivated learner with a proven history of autonomous productivity.

---

## Skills

- **Languages/Frameworks:** C++, Java, HTML5, CSS3, Javascript, jQuery, JSON, AJAX, Ruby + Rails, Python, SQL (MySQL), Bootstrap, bash/shell scripting, XML
- **Other tools:** JUnit, Google Test, Distributed Version Control Systems (git/github, Mercurial), Ant, Maven, Ivy, Jenkins, gcov, valgrind, jaCoCo, FindBugs, Eclipse, Netbeans, Vim/Vi
- *Test Driven Development (TDD)*, unit testing, testing frameworks (i.e. JUnit and Google Test)
- *Software Development Life Cycle (SDLC)*, *Unified Modeling Language (UML)*
- *Object Oriented Programming (OOP)*, Object Oriented Analysis and Design (OOAD), software design patterns, data structures and algorithms

---

## Education

### Bachelor of Science in Computer Science

May 2016 (*expected*)

- **Old Dominion University** - Norfolk, VA
- Current GPA: 3.97 / 4

#### Relevant Coursework:

- |  |  |
|--|--|
| - Advanced Data Structures & Algorithms                  | - Object Oriented Programming and Design |
| - <u>Computational Methods &amp; Software (git repo)</u> | - Computer Architecture Fundamentals     |
| - Intro. to Discrete Structures                          | - Programming and Problem Solving in C++ |
| - Principles of Programming Languages                    | - Introductory Linear Algebra            |
| - Intro. to Theoretical Computer Science                 | - Calculus I, II                         |
| - Intro. to Software Engineering                         | - University Physics I, II               |
| - Professional Workforce Development                     | - Intro. to Probability and Statistics   |

#### Project Highlights:

*Professional Workforce Development – 2 semester senior capstone project (in progress)*

Project website (mirror) - Git repository (website)

- Providing student newspaper with tools to compete in the world of modern digital journalism by developing rich editing and interactive visualization capabilities, as well as social media integration and dynamic news aggregation via web scraping and APIs.
- Serving as team leader in addition to implementation responsibilities.

*Intro. to Software Engineering – Git repository*

- Worked with other students to develop an automated mutation testing program. Project goal was to practice SDLC concepts and master common software engineering tools used for build/config management, version control, testing, documentation, and continuous integration practices.
- Served as team leader, executed most of the required build/config management, and contributed significantly to implementation of issues/user stories throughout the project.

**Associate of Arts and Sciences in General Studies and**

Dec. 2012

**Associate of Arts and Sciences in Liberal Arts: Fine Arts**

- **Lord Fairfax Community College** - Middletown, VA
- Summa Cum Laude, GPA: 4.0 / 4

# Erik Wichern

1309 Valley Avenue, Winchester, VA 22601  
540.454.1194  
erik.wichern@gmail.com

usingname.space  
github.com/ewichern  
bitbucket.org/ewichern  
linkedin.com/in/ewichern

## Work Experience

**Applications Implementer (Intern)** June 2000 – Sept. 2001 (summers)  
**Redhat Linux E-Business Services Division (formerly Akopia, Inc.)** – Reston, VA

- Created an Interchange developer resource site as a conduit to provide educational resources and facilitate communication between project maintainers and independent developers.
- Implemented sample database-driven web applications using Interchange platform to be used as educational and marketing resources and to demonstrate features of Interchange/Minivend.

**Information Technology Advisor (work study)** Aug. 2000 – May 2001  
**Univ. of Pennsylvania College House Computing** – Philadelphia, PA

- Received excellent feedback from users by providing service beyond the standard CHC troubleshooting guidelines, based on education and knowledge pursued during personal time.

---

---

**Night Counselor** May 2009 – Present  
**Timber Ridge School** – Cross Junction, VA

- Reduced student conflicts and behavioral incidents approx. 50% by suggesting and implementing effective modifications to the morning routine.
- Responded to students' emotional and behavioral crises. Minimized further escalation by remaining patient, neutral, and calm while utilizing therapeutic crisis intervention strategies.
- Participated in Strategic Planning Retreat, Oct. 2014
- Employee of the Month, Nov. 2012

**Behavioral Specialist** Oct. 2007 – July 2009  
**Family Preservation Services** – Winchester, VA

- Delivered highest quality of care and services to clients by collaborating and coordinating communication with clients' families, school personnel, and community services.
- Enabled clients to succeed in a mainstream school environment by intervening with appropriate crisis management techniques during periods of emotional or behavioral stress.
- Addressed clients' individual needs and planned for each clients' eventual discontinuation of services by creating, maintaining, and executing individual behavior management plans.

**Substitute Teacher** Oct. 2006 – June 2007  
**Frederick County Public Schools** – Frederick County, VA

**Artist's Assistant/Gallery Manager** Aug. 2005 – Oct. 2006  
**BJ Anderson Studio** – Alexandria, VA

**Direct Care Counselor** June 2004 – Mar. 2005  
**Loudoun County Youth Shelter** – Leesburg, VA

**Lead Carpenter** June 2002 – June 2004  
**Washington Deck Works** – Ashburn, VA

**Weekend Manager** Oct. 2001 – Mar. 2002  
**Sonix Systems** – Dulles, VA

- Set daily shipping record of over 1000+ phones/day by motivating employees during weekend shifts. Team also set daily record for # of customer service emails processed.

---

---

## Other Interests

- Hacking Android devices. Playing with custom firmware and obsessively pursuing the fine balance between features/performance and minimal power consumption while idle.