

# Kory Kirk

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*<http://www.korykirk.com>*

## Education:

### **Master of Science in Computer Science - 2010**

**Villanova University**, Villanova, PA

Graduating GPA: 3.37

### **Bachelor of Science in Computer Science; Minor in Mathematics - 2009**

**Villanova University**, Villanova, PA

Graduating GPA: 3.21

## Skills:

Very strong Java programmer. Experienced in Mozilla framework and extension development. Proficient in C and php programming languages. Strong Artificial Intelligence background, with focus in genetic algorithms. Familiar with Ruby, Visual Basic, Objective C, C++, Lisp, Prolog and SML programming Languages. Microsoft Desktop Technician certified with experience in computer repair.

## Work Experience:

### **Google Summer of Code – The Tor Project/EFF, Summer 2010**

Developing a Java implementation of the Tor protocol, specifically Tor Hidden Services.

<http://korykirk.com/GSoC/2010/>

### **Graduate Tuition Scholar – Villanova University Computer Science Department, Fall 2009 – Spring 2010**

Graduate assistant for three Java based Algorithms and Data Structures classes and a Ethics in computing class. Research Assistant for Data Mining with Machine Learning class. Computer Science general tutor for 12 hours a week.

### **Google Summer of Code – The Tor Project/EFF, Summer 2009**

Summer 2009. Developed multiple features for Torbutton Firefox extension.

<http://korykirk.com/GSoC/blag/index.php>

### **Undergraduate Research assistant for Ad Hoc Wireless network Research**

Supported by NSF grant CCF-0728909; Worked with Dr. Mirela Damian on analyzing properties of ad hoc networks connected with various algorithms. <http://adhoc.korykirk.com/>

### **Technical Consultant at Villanova's Techzone (Computer Support Center)**

Spring 2006 to Spring 2009 (not including summers)

### **Accenture Internship**

Summer 2008. Part of IT development team in the defense branch of Accenture in King of Prussia, PA

### **Carnegie Melon C-Mites Workshop Teaching Assistant – Philadelphia, PA**

Fall 2007. Taught an "Introduction to Robotics" course to talented and gifted 5<sup>th</sup> graders.

### **Computer Programming Internship The Center for Brain Health - University of Texas at Dallas**

Summer 2007. Helped develop a fractal analysis program to detect Alzheimer's in brain scans. Corresponded

with researchers to program multiple interactive Java applets to be used for teaching skills to learning disabled children.

## Projects:

**Independent Study & Masters Thesis**, Genetic Algorithms and an Exploration of the Genetic Wavelet Algorithm  
<http://korykirk.com/thesis.pdf> (Fall 2009 – Spring 2010)

**JTor, Java implementation of the Tor Protocol. Hidden Service implementation. (Fall 2009 - Present)**

**Torbutton**: Firefox extension for Tor. Volunteer developer. Contributed various features (Summer 2009 – Present)

**novamail**: Firefox extension for Villanova students. (Spring 08-2009)

**Distributed Javascript Problem Solving (0xPi) senior capstone project** <http://seniorproject.korykirk.com/> (Fall 2008)

**Wireless Protocol Research Project** - <http://www.csc.villanova.edu/~kkirk/> (Fall 2007)

Various other Java projects can be found at <http://korykirk.com/java.html>

## Activities/Honors:

### **Sigma Xi Poster Competition**

Fall 2008. Sigma Xi national conference in Washington D.C. Poster Presented on Analysis of The Stretch Factors of Delaunay Based Spanners. Received honorable mention.

Spring 2009. Sigma Xi Villanova Chapter Poster Competition. Received 3<sup>rd</sup> place.

### **Upsilon Pi Epsilon – Computer Science Honor Society**

Member since: Spring 2008. Villanova Chapter Vice President 2009-2010.

### **Battlecode MIT AI programming competition**

2009 - 3<sup>rd</sup> place, 2<sup>nd</sup> best college team. (Team Villanova) <http://battlecode.mit.edu/2009/info/glory>

### **Villanova Programming Team, International Collegiate Programming Contest Fall 2006 - Fall 2009**

Captain of Team (07,08). Received Honorable Mention in 2006 & 2007 competitions. Placed 2<sup>nd</sup> Locally; 19<sup>th</sup> Regionally in 2008. Placed 2<sup>nd</sup> Locally; 11<sup>th</sup> Regionally in 2009.

### **Association of Computing Machinery.**

Member since 2005. Villanova Chapter board member 2006-09.

### **Volunteer for Julio De Vargas Project. Fall 2007-2009**

Once a week I went to Julio De Burgos Magnet School in Philadelphia and teach 8<sup>th</sup> graders computing skills.