

TIMOTHY KILBOURN

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EDUCATION

Ph.D., Mathematics

expected August 2007

University of Illinois—Urbana, IL

B.S., Mathematics and Computer Science, GPA: 3.75

February 2001

Rose-Hulman Institute of Technology—Terre Haute, IN

SOFTWARE ENGINEERING EXPERIENCE

Graduate Assistant

Spring 2006

University of Illinois Department of Mathematics—Urbana, IL

- Designed a web-based system for collecting faculty and graduate student teaching preferences for the Associate Chair of the Math Department (HTML, JavaScript, PHP, MySQL).

Software Engineer

March 2001–August 2002

Software Engineering Professionals—Carmel, IN

- Designed and implemented software for a medical device communications gateway (ASN.1, C++, CORBA, Linux, TCP/IP, pthreads).
- Participated in the specification of an IEEE protocol for medical device networking with industry leaders.

MATH RESEARCH EXPERIENCE

Research Fellow

Summer 2003–Spring 2007

University of Illinois Department of Mathematics—Urbana, IL

- Used emerging techniques in number theory to answer a broad range of mathematical questions.
- Presented research results at professional conferences, including two invited talks.

Research Assistant

Spring 2003

University of Illinois Department of Mathematics—Urbana, IL

- Refactored a cryptographic algorithm, resulting in a threefold speedup (C/C++, GMP).

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Organizer, Midwest Number Theory Conference for Graduate Students IV

Fall 2006

University of Illinois Department of Mathematics—Urbana, IL

- Developed software for organizing math conferences (<http://dedekind.math.uiuc.edu/mntcg4>) (Ruby on Rails, JavaScript, PostgreSQL).
- Organized the conference schedule and made arrangements with the University and local hotels.
- Promoted the conference to graduate mathematics departments in the Midwest.

Teaching Assistant

Fall 2002–Fall 2006

University of Illinois Department of Mathematics—Urbana, IL

- Independently taught advanced mathematical concepts to students of various backgrounds.
- Received the Brahana Teaching Assistant Award for excellence in teaching by a graduate student.

SKILLS

Computer Languages:

- Expert in C, C++, HTML, Java, L^AT_EX, Ruby/Rails, Smalltalk, SQL, UNIX Shells, XML.
- Excellent working knowledge of Haskell, Objective C, Perl, PHP, Prolog, Python, XSLT.

ACHIEVEMENTS & AWARDS

University of Illinois Bateman Fellowship in Number Theory, Spring 2007.

University of Illinois Department of Mathematics Fellowships, 2003–2004 and 2004–2005.

Outstanding First-Year Employee Award, Software Engineering Professionals, 2001.