Ravi Khadiwala

677 Bryn Mawr Ave.

Bartlett, IL 60103

630.806.1593

ravi.khadiwala@gmail.com

Education

- **University of Illinois**   Urbana-Champaign, IL
  GPA: 3.55

  Bachelor of Science in Computer Science Engineering   *Sep. 2008 - Dec. 2012*
    – Senior Thesis: Twitter-based Event Detection and Analysis
    – Selected Courses: AI, Distributed Systems, Security, Algorithms, Data Structures, Numerical Methods

  Bachelor of Science in Mathematics and Economics   *Sep. 2008 - Dec. 2012*
    – Selected Courses: Graph Theory, Abstract Algebra, Real Analysis, Complex Analysis, Game Theory

- **Bartlett High School**   Bartlett, IL
    – Top 2% of Class   *Sep. 2004 - May. 2008*

Work Experience

- **Hulu**   Los Angeles, CA
  Software Developer Intern   *May. 2012 - Aug. 2012*
    – Helped manage and debug distributed file system, transcoding jobs, and content delivery in the content workflow
    – Built tool in C using FFmpeg libraries to automatically detect locations to insert ad breaks in movies and television shows
    – Integrated AvxSynth (a Linux port of AviSynth) into FFmpeg for use in transcoding farm

- **UIUC Data Sciences Summer Institute**   Urbana-Champaign, IL
  Research Project Intern   *Jun. 2011 - Aug. 2011*
    – Worked with team to produce a novel web system that detected, analyzed, and visually represented crime and natural disaster related events on Twitter in real time
    – Lead team on back end components (Java): crawling, classification, location resolution, indexing, mySQL database
    – Attended tutorials on data mining, machine learning, computer vision, etc.

Skills

Languages: Python, C, C++, Java, OCaml, Shell Scripting, SQL

Operating Systems: Linux/Unix, Windows

DBs/Software: MySQL, MongoDB, FFmpeg, Eclipse, MS Excel

Interests: Machine Learning, AI, Distributed Systems, Graph Theory, Video

Publications

"TEDAS: a Twitter based Event Detection and Analysis System", *ICDE Conference,* 2012.
  Demonstration description.

Projects

SPIM MIPS Simulator Fork: Developed debugging functionality to the SPIM MIPS simulator for use in CS232 (Computer Architecture II) at UIUC. Allowed users to execute arbitrary C code from within MIPS code for testing and convenience

Intelligent Ground Vehicle Competition: Worked with IGV team to build a autonomous off-road vehicle. Built obstacle detection tools with the AI/CV team