Ravi Khadiwala
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Work Experience

- **Cleversafe** Chicago, IL
  Associate Software Developer *Jan. 2013 - Current*
  - Developed software and approaches to rebuilding lost data in a distributed dispersed storage network
  - Addressed reliability and performance issues via intelligent scheduling, unique filesystem approaches, and novel distributed protocols
  - Concurrency and Distributed Systems in Java

- **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 using a novel strategy (patent pending)
  - 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.

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
  - Concentration in Artificial Intelligence

  Bachelor of Science in Mathematics and Economics *Sep. 2008 - Dec. 2012*

Skills

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

Operating Systems: Linux/Unix, Windows

DBs/Software: MySQL, MongoDB, FFmpeg, Eclipse, MS Excel, Numpy/Scipy/Pandas

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

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

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