

Patrick Korth

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7265 North Quadrangle, 105 S. State St., Ann Arbor, MI
3625 E. Hiawatha Dr., Okemos, MI (permanent)

EDUCATION

University of Michigan, College of Engineering, Ann Arbor, MI

- B.S.E. Computer Science (expected April 2015)
- Sophomore (Junior class standing)
- GPA: 3.58/4.0
- Engineering Dean's List and University Honors (2/2 semesters)
- Relevant coursework: Data Structures & Algorithms, Intro. to Computer Organization, Compiler Construction, Discrete Math, Complex Systems

EXPERIENCE

Undergraduate Research Assistant (Summer 2012)

Michigan State University Institute for Cyber-Enabled Research, East Lansing, MI

- Developed an object-tracking computer vision algorithm in Python using SIFT local feature matching and reinforcement learning
- Created a software suite to aid in the development and use of additional object-tracking and video analysis algorithms
- Received extensive training in academic research and presented a poster, "Using Reinforcement Learning with SIFT to Track Objects in Videos," at the MSU Summer Undergraduate Research Forum

Software Development Intern (Summers 2009, 2010)

Michigan State University Department of Radiology, East Lansing, MI

- Designed and programmed an extensive Flash game for a grant-funded program to educate youth about nutrition
- Created a series of four educational Flash games which were published and are running on the department's website

IT Support Staff (Summers 2007, 2008)

Michigan State University Department of Radiology, East Lansing, MI

ACTIVITIES

CSE Scholars (Fall 2011 - Present)

University of Michigan, Computer Science Engineering

- Officer, CS Bootcamp: design and run an after-school program for local high school students interested in Java and advanced programming techniques
- Assist other officers in running the CSE Scholars student organization
- Community service work volunteer

UM Engineering Tech Day Planning Committee (Winter 2011 - Present)

- Co-Chair, Webmaster: Redesign and improve website for UM Tech Day 2013
- Co-Chair, Food Service: Organize and execute food service for over 1,000 guests at UM Tech Day 2012

UM Running Club (Fall 2012 - Present)

SKILLS

C++ (and STL), Python, Git, Linux, Windows XP & 7, technical writing, familiar with Java, Basic Spanish (speak/read/write)

AWARDS

University of Michigan Engineering Dean's List and University Honors (Fall 2011, Winter 2012), Life Scout - Boy Scouts of America (2011), National Honor Society Commended Scholar (2011), CAAC All-Academic Athlete (2010, 2011)