

# Patrick Korth

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1420 Geddes Ave., Ann Arbor, MI

## EDUCATION

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

- B.S.E. Computer Science, minor in Complex Systems (Junior; expected May 2015)
- GPA: 3.5/4.0
- Courses include: Object-Oriented and Advanced Programming (currently enrolled), Intro to Artificial Intelligence (currently enrolled), Data Structures and Algorithms, Intro to Computer Organization, Compiler Construction, Discrete Math, Intro to Agent-Based Modeling

## EXPERIENCE

**Software Engineer Intern** (Summer 2013)

*Appian Corporation, Reston, VA*

- Delivered front-end UI components in Java for a business process management software suite, impacting how millions of users across the globe track and view information
- Implemented project specifications across back-end server software and web/Android clients

**Undergraduate Research Assistant** (Summer 2012)

*Michigan State University College of Engineering, East Lansing, MI*

- Wrote computer vision algorithm in Python using feature matching and reinforcement learning
- Architected and wrote a software framework for the development of video analysis algorithms

**Software Engineer Intern** (Summers 2009, 2010)

*Michigan State University Dept. of Radiology, East Lansing, MI*

- Developed Adobe Flash games for department website to teach youth about medical imaging

## ACTIVITIES

**CSE Scholars Community Education Chair** (Fall 2011 - Present)

*University of Michigan College of Engineering*

- Design and run CS Bootcamp, a weekly after-school tutoring program for local high school students taking computer science courses. Lead lessons in Java and provide homework help
- Organize and carry out monthly events aimed at educating the college community about various topics in computer science
- Community service work volunteer

**Tech Day Planning Committee** (Winter 2011 - Present)

*University of Michigan College of Engineering*

- Co-chair, Webmaster 2013: Redesign portions of and update information on the UM Tech Day website using basic HTML, PHP, and CSS

**Grader for Introductory Programming Course** (Fall 2013 - Present)

*University of Michigan College of Engineering*

**UM Running Club** (Fall 2012 - Present)

## SKILLS

Proficient: C++, Java, Python, git

Experience: C, Google Web Toolkit, Android SDK, Unix bash, Agile development, Eclipse

## 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)