Stephen A. Zekany

2696 Antietam Court, Ann Arbor, MI 48105
szekany@umich.edu | (734) 239-3772

EDUCATION

University of Michigan, Ann Arbor, MI
Ph.D. in Computer Science and Engineering — May 2016 - May 2019 (expected)
M.S. in Computer Science and Engineering — January 2014 - May 2016
Relevant Coursework: Computer Architecture (EECS 470/570), Operating Systems (EECS 482), Compilers (EECS 583), Databases (EECS 484), Artificial Intelligence (EECS 592)
GPA: 3.65/4.0

Non-Degree Student in Computer Science — May 2012 - December 2013
Earned 24 credit hours in undergraduate program prior to admission to M.S. program
GPA: 3.9/4.0

Bachelor of Science in Physics — December 2008

RELEVANT EXPERIENCE

University of Michigan Computer Science and Engineering Program, Ann Arbor, MI
Graduate Student Instructor — January 2015 - Present
- Teach lab sections of EECS 470, a graduate-level course on out-of-order, superscalar processor design
- Final student evaluations on effectiveness of instruction: 4.9/5

ARM, Austin, TX
CPU Design Engineer Intern — May 2015 - August 2015
- Member of validation team for a confidential CPU product
- Wrote SystemVerilog interface for an assembly test generation tool

Boeing, Seattle, WA
Software Engineering Intern — May 2014 - July 2014
- Developed new features for an internal tool to aid purchasing department in strategic decision-making
- Discovered and patched security vulnerabilities and handled emergent issues

University of Michigan Biopsychology Lab, Ann Arbor, MI
Research Laboratory Specialist — June 2010 - April 2014
- As lab manager, was responsible for administration, equipment, and software programming
- Coded data analysis program to produce statistical results, plots, and other data visualizations

AWARDS

University of Michigan Rackham Graduate Fellowship Award — November 2014
Michigan Initiative for Innovation & Entrepreneurship Commercialization Grant — October 2013

SELECTED PROJECTS

Statically Predicting Program Behavior — January 2016 - October 2016
- Trained LSTM neural network to predict and classify likely execution paths for arbitrary code

Approximate Neural Networks — February 2015 - April 2015
- Studied the effect of reduced precision multiply operations on MNIST benchmark
- Found precision can be substantially reduced without significantly altering outcome

Computer Architecture Design Project — January 2014 - April 2014
- Designed a fully synthesizable, out-of-order, superscalar processor using SystemVerilog

VOLUNTEER & PROFESSIONAL MEMBERSHIP

Scoutmaster, Troop 8, Ann Arbor — January 2009 - Present
- Principal adult volunteer for an active outdoor program of approximately 50 youth
- Lead multiple weekend trips each month and 3-4 weeklong trips each year

Eta Kappa Nu (HKN), Beta-Epsilon chapter, University of Michigan — January 2015 - Present

Board Member, Friends of the Washtenaw Veterans Treatment Court — December 2014 – Present