

EDUCATION

Bachelor of Engineering, Computer Science
University of Michigan, Ann Arbor, Michigan

May 2016

COMPUTER SKILLS

Proficient Languages & Software: C++, Python, Matlab,
Slight Knowledge: Java, HTML/CSS, Javascript, bash, SQL, git, Clojure.
Security Tools: NMAP, Burp Suite, Wireshark, (a bit of Metasploit)
Github Account: <https://github.com/mmmsplay10>
Personal Website: <http://www-personal.umich.edu/~skvikas>

PROFESSIONAL EXPERIENCE

Security Research/Engineering Intern
Duo Security, Ann Arbor, Michigan

Summer 2014

- Audited and tested Duo's codebase for SQL injection and XSS vulnerabilities
- Miscellaneous security fixes
- Android security auditing
- Android CA Pinning

Android Programming Research Intern
Laboratory of Dr. Yuan Xue

Summer 2013

Computer Science Department at Vanderbilt University, Nashville, TN

- Used Java's Remote Method Invocation to offload the computationally intensive portions of android applications to a server.
- Hardcoded offloading method into sample app and then wrote code parser that takes in an android application and edits the code to offload portions to server.

Notable Personal Projects

2012 - Present

- *Michigan Hackers Core Team:* Member of the Michigan Hackers security team. I am helping to plan and run a CTF on campus within the next few months.
- *CTF team:* Member of capture the flag team named "Free the Mallocs". Team placed 49th in Hitcon CTF 2014 and regularly participates in online CTF competitions.
- *Leap-step:* A Leap Motion controlled dubstep synthesizer and visualizer. Different gestures produce different sounds and visuals. Position impacts 'wobble' rate and pitch.
ChallengePost Link: <http://mhackswinter2014.challengepost.com/submissions/20107-leapstep>
- *The Chordinator:* Given an input melody, the program generates a matching chord progression and produces a MIDI file containing both the user-input melody and the accompanying chords.

Relevant Current Coursework

- *EECS 388:* Introduction to Computer and Network Security
- *EECS 475:* Introduction to Cryptography
- *EECS 370:* Introduction to Computer Architecture

Relevant Completed Coursework

- *EECS 281:* Data Structures and Algorithms
- *EECS 376:* Foundations of Computer Science
- *EECS 280:* Introduction to Algorithms and Data Structures
- *EECS 203:* Discrete Mathematics
- *ENGR 101:* Introduction to Programming
- *ENGR 100:* Music Signal Processing

EXTRA-CURRICULAR ACTIVITIES

Chess: USCF Rating: 1981. Ranked in the top 100 in the United States for my age for ages 13-18. 224 volunteer hours teaching chess. Taught private lessons since 2009. Membership Director of U-Michigan's chess club for 2013-2014 school year.

Music: Proficient at piano, beatboxing, bass, guitar, trombone and electronic music production. Here is my soundcloud: www.soundcloud.com/vikasy

Boy Scouts: Attained Rank of Eagle Scout. Member of Order of the Arrow