

## EMPLOYMENT

<b>Software Engineer, Intern</b>	<b>Accenture Federal Services</b>	<b>June 2016 – Aug. 2016</b>
<ul style="list-style-type: none"><li>• Self-taught and developed PL/SQL code rapidly and collaboratively to actively contribute to a large-scale USPS project</li><li>• Optimized Oracle SQL queries and amended existing production code to adhere and adapt to changing database models</li><li>• Developed innovative solutions to fix software defects and implement new design amendments</li><li>• Identified inefficiencies in existing Java program and problem-solved to reduce runtime from <math>O(n^2)</math> to <math>O(n)</math> by implementing HashMap structure for faster lookups</li></ul>		
<b>Software Developer, Intern</b>	<b>Accenture Federal Services</b>	<b>May 2015 – Aug. 2015</b>
<ul style="list-style-type: none"><li>• Built live surveying app collaboratively to enable team leads to assess how well their team members follow Agile</li><li>• Designed and implemented random-code generator to allow employees to easily access correct surveys in real-time, especially if multiple project teams ran surveys simultaneously</li><li>• Structured backend hierarchy to enable executives to access aggregated survey results by division, team, sub team, etc</li><li>• Developed analytics dashboards to compare results between teams and influence best engineering practices at AFS</li></ul>		
<b>Research Assistant</b>	<b>Maryland Cybersecurity Center</b>	<b>June 2014 – Aug. 2014</b>
<ul style="list-style-type: none"><li>• Studied survival analysis in order to analyze data concerning hazard rates of host vulnerabilities</li><li>• Analyzed the probability that a vulnerability in a host would be patched</li><li>• Interpreted statistical trend tests to determine reliability in patches for system vulnerabilities</li></ul>		

## EDUCATION

<b>College Park, MD</b>	<b>University of Maryland</b>	<b>Sept. 2013 – May 2017</b>
<ul style="list-style-type: none"><li>• B.S. in Computer Science from College of Computer, Mathematical, and Natural Sciences</li><li>• Minor in Innovation and Entrepreneurship from Robert H. Smith School of Business</li><li>• Banneker Key Scholarship (Full merit award) and University of Maryland Dean's List</li><li>• Undergraduate Coursework: Object-Oriented Programming I &amp; II, Discrete Structures, Organization of Programming Languages, Differential Equations, Algorithms, Intro to Reverse Engineering, Computer Networks, Data Structures, Computer and Network Security, Programming Language Technologies and Paradigms, Database Design, Intro to Data Science, and Bioinformatics</li><li>• GPA: 3.75</li></ul>		

## PROJECTS/COMPETITIONS

<b>Tempo Tunes, Bitcamp 2016 – Hackathon</b>	<b><a href="https://github.com/kvyshakh/tempotunes">https://github.com/kvyshakh/tempotunes</a></b>
<ul style="list-style-type: none"><li>• Android app for Myo Gesture Control Armband that automatically changes music based on a runner's workout intensity</li><li>• Employed Spotify SDK to connect app to Spotify playlists and Myo SDK to implement motion tracking</li><li>• Utilized Matlab to identify motion tracking patterns in walking, jogging, and running data</li></ul>	
<b>Microsoft Build the Shield Competition 2016</b>	
<ul style="list-style-type: none"><li>• Sponsored by Microsoft and flown to headquarters to compete in annual Capture-the-Flag competition</li><li>• Competed among 50 teams to complete challenges such as SQL injections and ciphertext decryptions</li></ul>	
<b>Gymder, Bitcamp 2015 – Hackathon</b>	<b><a href="http://devpost.com/software/gymder">http://devpost.com/software/gymder</a></b>
<ul style="list-style-type: none"><li>• Pebble Smartwatch app that enables gym users to match with workout buddies</li><li>• Implemented Pebble SDK to design watch app UI and maintain connection to phone and other Pebble watches</li><li>• Implemented Sails.js to develop mobile web app that enables user to register watch</li></ul>	

## LANGUAGES AND TECHNOLOGIES

- Proficient in Python, Java, C, Grails, PostgreSQL, concurrency, and R
- Strong competency in data structures and algorithms
- Hands-on experience with Oracle SQL, version control (Github and Subversion), MVC frameworks, HP Quality Center, Agile, Unix, Node.js, Django, and Socket.io
- Intermediate competency in HTML, CSS, Javascript, jQuery, and Ajax
- Working knowledge of Apache Spark and Hadoop