Gregory Simon Bekher

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EDUCATION	University of Maryland, College Park, MD	
	 Bachelor of Science (B.S.) in Computer Science GPA: 3.81 	Aug 2014 – Present
	 Department of Computer Science Honors Program Honors College, Advanced Cybersecurity Experience for Students (ACES) Progr Minor in Russian Studies 	am
WORK	Department of Computer Science, University of Maryland	
EXPERIENCE	Teaching Assistant for CMSC330: Organization of Programming Language	s Fall 2016
	Tenable Network Security, Columbia, MD	
	 Software Engineer Intern, Passive Vulnerability Scanner (PVS) Core Team Summer 2016 Increased PVS engine realtime packet processing speed by 35% by designing, implementing, and testing an optimized plugin evaluation algorithm in C. Created a classifier with SKLearn to label network flows by category; model yielded 98% test accuracy. 	
	 Developed and tested a benchmarking suite to locate bottlenecks in PVS data structures. 	
	Northrop Grumman Information Systems, Annapolis Junction, MD	
	 Software Engineer Intern, APPIA & CSAWS Platforms Developed an IRC bot for the APPIA REST API in Ruby; created automation scr Contributed web UI enhancements and Java JBoss backend security patches and b 	-
	Systems Engineer Intern, Cyber Security Operations Center (CSOC) • Wrote LDAP aggregation infrastructure for >80k users, currently deployed on CSOC production servers. • Saved analysts >5 work hrs/week with a workflow automation tool. Created automation scripts in Python.	
RESEARCH	Software Engineering at Maryland (SEAM), Dr. James Purtilo, University of	of Maryland
EXPERIENCE	Project Lead, Dynamic Reconfiguration via Live Application Migration • Designed reconfiguration bus architecture with Docker hooks, developed RESTfo	Jan 2015 – Jun 2016 ul web API in Python.
NOTABLE PROJECTS	 Parapit Community Platform Threat sharing and communication platform for information security professional 	
	 Scalable web platform and info feed designed in NodeJS, ReactJS, and Redux using MongoDB & Redis. Unstructured text classification and processing developed with the Python NLTK framework. 	
	Synesthesia Music Processing Tool, NodeJS+React App	Apr 2016
	 CheckSnap Restaurant Receipt Parser, iOS App 	2015
SKILLS &	■ Proficient: C, Python, JavaScript ES5 & ES6, Java, BASH, Ruby, OCaml	
LANGUAGES	■ Experience With: Swift, Objective-C, Scheme, Prolog, x86 Assembly Flavors, MATLAB, LATEX	
	■ Frameworks: ReactJS, Redux, NodeJS, iOS SDK, SKLearn, NLTK, GTest, Linux Kernel Libs	
CAMPUS	 President, ACES Honors Program Student Board 	May 2015 – May 2016
ACTIVITIES	 Recruitment Ambassador, College of Math and Natural Sciences 	Mar 2016 – Present
	■ Member, UMD Startup Shell Incubator	Mar 2016 – Present
ACADEMIC	 Corporate Partners in Computing Scholarship, University of Maryland 	2016
AWARDS	 Gannon Portal Scholarship, Computer Science Dept., University of Marylan 	
	 Senate Scholarship, State of Maryland 	2014 – 2016
	 Dean's List, Fall 2014 through Spring 2016, University of Maryland 	2014 - 2016

• Undergraduate: Machine Learning, Programming Language Paradigms, Computer Architecture,

Organization of Programming Languages, Reverse Engineering, Linear Algebra

COURSEWORK