Gregory Simon Bekher

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EDUCATION

University of Maryland, College Park, MD

■ Bachelor of Science (B.S.) in Computer Science

Aug 2014 - Present

- GPA: 3.81
- Department of Computer Science Honors Program
- Honors College, Advanced Cybersecurity Experience for Students (ACES) Program
- Minor in Russian Studies
- Coursework: Intro to Machine Learning, Programming Language Paradigms, Computer Architecture, Algorithms, Organization of Programming Languages, Data Structures, Intro to Computer Systems, Reverse Engineering, Linear Algebra

SKILLS & LANGUAGES

- Proficient: C, Python, JavaScript ES5 & ES6, Ruby, Java, BASH
- Experience With: OCaml, Swift, Objective-C, Scheme, Prolog, x86 Assembly Flavors, LATEX
- Frameworks: ReactJS, Redux, iOS SDK, Linux Kernel Libs, SKLearn, NLTK, JBoss Wildfly

WORK EXPERIENCE

Department of Computer Science University of Maryland

Teaching Assistant for CMSC330: Organization of Programming Languages

Fall 2016

Tenable Network Security, Columbia, MD

Software Engineer Intern, Passive Vulnerability Scanner (PVS) Core Team

Summer 2016

- Increased PVS engine packet processing speed by 35% by redesigning and implementing an optimized plugin
 evaluation algorithm.
- Designed a classifier to detect anomalous apps by system call behavior; model yielded >95% test accuracy
- Developed a benchmarking suite to locate bottlenecks in PVS data structures.

Northrop Grumman Information Systems, Annapolis Junction, MD

Software Engineer Intern, APPIA & CSAWS Platforms

June 2015 - Apr 2016

- Contributed several UI enhancements and various Java JBoss backend bugfixes for both platforms.
- Practiced Agile & Scrum in 3 week sprints throughout the semester
- $\bullet \ \ Developed \ an \ IRC \ bot \ for \ the \ APPIA \ REST \ API \ in \ Ruby; \ Created \ automation \ scripts \ in \ Python.$

Systems Engineer Intern, Cyber Security Operations Center (CSOC)

June 2012 - May 2015

- $\bullet \ \ Developed\ LDAP\ aggregation\ infrastructure\ for\ >\!80k\ users,\ currently\ deployed\ on\ CSOC\ production\ servers$
- Created and developed a beta analyst threat sharing webapp in Django

RESEARCH EXPERIENCE

Software Engineering at Maryland (SEAM) Group, University of Maryland

Project Lead, Dynamic Reconfiguration via Live Application Migration Jan 2015 – Jun 2016

• Designed reconfiguration bus architecture with Docker hooks, developed RESTful web API in Python.

NOTABLE PROJECTS

■ Parapit Community Platform

2016

- $\bullet \ \ Threat \ sharing \ and \ communication \ platform \ for \ information \ security \ professionals. \ See \ parapit.com.$
- Web platform designed in NodeJS, ReactJS, and Redux using MongoDB & Redis. Unstructured text classification and processing developed with the Python NTLK framework.
- Synesthesia Music Processing Tool, NodeJS+React App

Apr 2016

■ CheckSnap Restaurant Receipt Parser, iOS App

2015

CAMPUS ACTIVITIES

• UMD Startup Shell Incubator, Member

2016 – Present

- Recruitment Ambassador, College of Math and Natural Sciences
- Mar 2016- Present
- Student Board President, Advanced Cybersecurity Experience for Students
 May 2015- May 2016

ACADEMIC AWARDS

• Dean's List, Fall 2014 through Spring 2016, University of Maryland

2014 - 2016

• Gannon Portal Scholarship, Computer Science Dept., University of Maryland

2015

• Senate Scholarship, State of Maryland

2014-2016