Gregory Simon Bekher

8300 Lyndhurst Street, Laurel, MD, 20724 greg@bekher.me • (443) 763-1428 • bekher.me

EDUCATION

University of Maryland, College Park, MD

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

Aug 2014 – Present

- GPA: 3.80
- Department of Computer Science Honors Program
- Honors College, Advanced Cybersecurity Experience for Students (ACES) Program
- Minor in Russian Studies (advanced reading, speaking; intermediate writing)

WORK EXPERIENCE

Department of Computer Science, University of Maryland

Teaching Assistant for CMSC330: Organization of Programming Languages Fall 2016 – Present

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.
- $\bullet \ \ Created\ a\ classifier\ with\ SKLearn\ to\ label\ network\ flows\ by\ category;\ model\ yielded\ 98\%\ test\ accuracy.$
- 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

Jun 2015 – Apr 2016

- Developed an IRC bot for the APPIA REST API in Ruby; created automation scripts in Python.
- Contributed web UI enhancements and Java JBoss backend security patches and bugfixes for both platforms.

Systems Engineer Intern, Cyber Security Operations Center (CSOC)

Jun

Jun 2012 – May 2015

- 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 EXPERIENCE

Software Engineering at Maryland (SEAM), Dr. James Purtilo, 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
- Threat sharing platform and information feed for infosec professionals. Designed using NodeJS and ReactJS.
- Unstructured text classification and processing developed with the Python NLTK framework.
- Synesthesia Music Transformation Tool, NodeJS+React App, Processing in Python Apr 2016
 Bitcamp 2016 hack, selected by Amazon AWS to demo the project at AWS Re:Invent '16 in Las Vegas.
- CheckSnap Restaurant Receipt Parser, iOS App 2015

SKILLS & LANGUAGES

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

CAMPUS ACTIVITIES

• President, ACES Honors Program Student Board

- May 2015 May 2016
- Recruitment Ambassador, College of Computer, Math, and Natural Sciences
- Mar 2016 Present

■ Member, UMD Startup Shell Incubator

Mar 2016 – Present

ACADEMIC AWARDS

- Corporate Partners in Computing Scholarship, University of Maryland
- 2016
- Gannon Portal Scholarship, Computer Science Dept., University of Maryland
- 2015

• Senate Scholarship, State of Maryland

2014 - 2016 2014 - 2016

- Dean's List, Fall 2014 through Fall 2016, University of Maryland
- ____

COURSEWORK

Undergraduate: Machine Learning, Programming Language Paradigms, Computer Architecture,
 Organization of Programming Languages, Reverse Engineering, Linear Algebra