

Gregory Simon Bekher

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EDUCATION

University of Maryland, College Park, MD

- Bachelor of Science in Computer Science Aug 2014 – Dec 2017
 - GPA: 3.78
 - 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
- Discussion lead and teaching TA; created and distributed discussion plans to 25 TA's for ~500 students.

TripAdvisor LLC, Needham, MA

- Software Engineer Intern (Full Stack), Vacation Rentals (VR) Point of Sale Summer 2017
- Deployed revenue-impacting live site features and bug fixes. Added new email notification service calls.
 - Created an owner response time backend model and frontend view for the VR property search results page.

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.
 - 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 backend security patches and bugfixes for both platforms.
- Systems Engineer Intern, Cyber Security Operations Center (CSOC) Jun 2013 – May 2015
- Wrote LDAP aggregation infrastructure for >80k users, currently deployed on CSOC production servers.

RESEARCH EXPERIENCE

Software Engineering at Maryland (SEAM), Dr. James Putilo, University of Maryland

- Project Lead, Dynamic Reconfiguration via Live Application Migration Jan 2015 – May 2017
- Designed reconfiguration bus architecture with Docker hooks, developed RESTful web API in Python.

NOTABLE PROJECTS

- OwlView: Augmented reality restaurant overlay, TripAdvisor intern hackathon Jul 2017
 - Used iOS 11 and ARKit beta to positionally overlay real restaurant info in 3D space. 2nd place winner.
- Carbon Footprint Calculator Webapp for the Association of Computing Machinery 2017
 - Designed and deployed a NodeJS app to calculate bulk CO2 footprint calculations for conference attendees
- Synesthesia Music Transformation Tool, NodeJS+React App, Processing in Python Apr 2016
 - Bitcamp 2016 hack, selected by Amazon AWS to demo at AWS Re:Invent '16 in Las Vegas.
- CheckSnap Restaurant Receipt Parser, iOS App 2015

SKILLS & LANGUAGES

- Proficient: Java, JavaScript ES5 & ES6, C, Python, Ruby, OCaml, Swift
- Experience With: Go, Objective-C, BASH, Scheme, Prolog, x86 Assembly, \LaTeX
- Technologies: NodeJS, Docker, SVN, Git, iOS SDK, RedHat Linux, SKLearn, 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 – 2017
- Dean's List Academic Honors, University of Maryland 2014 – 2017