

ERIC ZINNIKAS

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Education

University of Maryland

Bachelor of Science, Computer Science (Expected May 2015)

QUEST Honors Fellows Program

Scholars: Business, Society & the Economy

College Park, MD

August 2011 to Present

August 2012 to Present

August 2011 to May 2013

- Developed a course plan focused on Computer Security and Networking Concepts, while enriching my education with the interdisciplinary challenges and reality-centered projects provided by the *QUEST* program
- Current Coursework: CMSC456: *Cryptology*; CMSC498N: *Seminar in CyberSecurity*

Projects

HackTECH

California Institute of Technology

January 2014

Santa Monica, CA

- Developed a computer vision based motion tracking app for Android, using the phone's camera along with the OpenCV library. This enabled our application to understand how the user was moving their phone in 2D space.
 - Designed demos to show remote (onto a client through Firebase) and local (overlaid on the screen) 2D drawing
 - Awarded *Best Computer Vision Hack* by Nantronics Imaging

HackMIT

Massachusetts Institute of Technology

October 2013

Cambridge, MA

- Designed Vidego, an advanced text search engine for video files (i.e. YouTube), which locates where in a video terms or concepts were used
 - Ruby was used to split and parse video files, Python to integrate with Nuance's speech recognition API, MongoDB to correlate our audio data and search terms, and AlchemyAPI for text analytics
- Awarded two sponsor prizes, from AlchemyAPI and Google, out of 30 total awarded prizes, while competing against over 280 different teams and thousands of students

Daemon Dash Hackathon

University of Maryland

September 2013

College Park, MD

- Created TerPlan.me, a dynamic degree advisory tool for students & advisors; placed 2nd with my team at the University of Maryland's annual hackathon
 - Automatic parsing of student transcripts and scraping of course data allows us to build individual profiles with detailed 4-year degree planning information for students
 - Easy access to key metrics (e.g. predictive class sizes, historic GPA graphs) provides advisors with a deeper view into their students' college careers

HONR378N: Research on Mobile Device Security

University of Maryland

September 2013 to December 2013

College Park, MD

- Personally, I am researching and implementing methods that attempt to break the mould of current security protections (APK checksums) and offer an intelligent service, based on device metrics (e.g. file access statistics, GPS irregularities) & user interactions (unusual device activities), so that devices can themselves react to malicious access

Work Experience

Security Engineer, Intern

Facebook

June 2014 to August 2014

Menlo Park, CA

- Built automated forensics and analysis tools to compliment Incident Response workflows, in addition to other related tasks

eDiscovery Developer

Johnson & Johnson, IT Shared Services

August 2013 to May 2014

Remote

- Expanding upon my internship this summer, I returned as a contractor, to analyze the efficiency of technician workflows and identify any need for improvement, while developing applications to meet those business needs
 - Automated collection, tabulation & monitoring of custodian information from multiple data sources (e.g. Active Directory, SCCM, proprietary J&J employee directories, DNS queries)
 - Provided a streamlined interface to interact with requests from the legal department; automatically correlated requested information from the appropriate Oracle databases and associated it with the proper case details
- My custom applications are currently used across the entire eDiscovery department, by all technicians, to automate and expedite a variety of systems
 - Process improvements directly generated time savings, condensing 10–15 minute custodian data collation, recording and monitoring tasks to only take seconds

eDiscovery Intern

Johnson & Johnson, IT Shared Services

June 2013 to August 2013

Raritan, NJ

- Developed custom applications, to improve the efficiency of eDiscovery processes; integrated separate systems and data sources, to provide an efficient system for monitoring custodian data
- Collected forensic information, through EnCase, while assisting with internal security and virus infection investigations

IT Technician

Hatch Mott MacDonald

May 2012 to August 2012

Millburn, NJ

- Automated support and maintenance tasks to expedite my workflow, while resolving hardware and software failures affecting engineers at the company
- Assisted Hatch Mott MacDonald's infrastructure team, who supervise 70 offices and nearly 3,000 staff, while being exposed to enterprise endpoint encryption (i.e. Symantec PGP), security, and VPN technologies (i.e. Juniper)

Skills	Interests	Memberships
Databases: MongoDB, MySQL Forensics: EnCase, Cuckoo Sandbox Operating Systems: VMware, Linux, Windows 7/8 Programming: C, Java, PHP, Ruby, Python Web Dev.: jQuery, Django	Athletic: Boxing, Mountain Biking, Skiing Technical: Learning about OWASP best-practices, experimenting with wireshark/burp, and generally exploring the functionality of websites	Sigma Phi Delta QUEST