Jared L. Katzman

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Education

Yale University - New Haven, CT

Bachelor of Science, *Cum Laude* | Computer Science with Honors | May 2016

Work Experience

Bridgewater Associates, *Westport, CT* — Security Technology | Technology Associate | Sept 2016 – Current

- Built a real-time analytics platform with AWS services to transform security controls and operations from a perimeter, defensive model to a data-centric, automated-reasoning framework.
- Redesigned a batch processing architecture as a real-time, serverless, streaming framework which decreased a security control's effect time from 24 hours to sub minutes and reduced monthly costs by a factor of 10.
- Applied deep learning to text data to improve the discovery and classification of security control violations.
- Received the highest performance grade amongst the 2016 Technology Associate cohort.

Amazon.com, *Seattle, WA* — Payment Systems | Intern | May – August 2015

- Programmed a multi-tier sandbox environment that enabled end-users to simulate transactions for new payment methods.
- Developed a full-stack solution including: Java server backend, data model and storage with Dynamo DB, and a dynamically generated UI with JavaScript.

Mellanox Technologies, *Ra'anana, Israel* — Ethernet Group| Intern | June – August 2014

- Reinvented the team's log analyzer tool and automated daily log reports with content rich emails.

Research & Publications

DeepSurv: Personalized Treatment Recommender System Using A Cox Proportional Hazards Deep Neural Network

- Researched the application of deep neural networks to survival analysis and demonstrated a deep neural network's ability to predict the risk of an event occurring (i.e. death of a patient).
- Demonstrated state-of-the-art performance in predicting a patient's risk of death and providing them with a personalized treatment recommendation.
- Released an open-source Python package with a Docker framework to increase the reproducibility of experiments.
- Presented at the *International Conference of Machine Learning* Computational Biology Workshop 2016.

Partisan Pastor: Political Science Research Assistant

- Studied the politicization of churches and the influence of church leaders as part of the political elite.
- Wrote a web scraper in Python to help construct a novel dataset to study political affiliation of religious leaders.

White House LGBTQ Tech & Innovation Summit Project: #transneeds

- Ran a social-media listening campaign to gather data on trans health issues.
- Analyzed over 12,000 responses and presented findings as policy recommendations to the U.S. Federal Government.

Adversarial Example Deep Learning Research

- Compared Google's adversarial training algorithm with other algorithms for increasing the stability of neural networks.

Competitions

US Air Force's CyberPatriot

Secured and defended simulated networks from hackers and real-time security threats. Worked with various vulnerability analysis and prevention tools.

Leadership Development

White House LGBTQ Tech & Innovation Summit, Summer 2015 – Conference on technology and open data in recruiting diversity, criminal justice, and civic engagement.

Shalom Hartman Institute's iEngage, Winter 2014 – Program on negotiation and conflict resolution at Israeli think-tank.

United States Cyber Challenge, Summer 2012 – Cybersecurity program covering penetration testing and hacking systems.

American Legion's NJ Boy State, Summer 2011 – Weeklong leadership program simulating NJ's state government.

Skills & Recognition

Awards: US Air Force CyberPatriot – Open Division National Champions, ACS Organic Chemistry Exam – 100th Percentile

Certifications: CompTIA Networking (2011), Security+ (2012)

Personal Interests: Meditation, Art: Japanese Sumi Ink, Graphic Design, Volleyball, Cooking, Hiking and the Outdoors