

Emmanuel Tsukerman

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Experience

- November 2019 - **Freelance Data Scientist** *Thinkful*
July 2018 - July 2019 **Cybersecurity Data Scientist** *Palo Alto Networks*
- Completed R&D of next-generation machine learning anti-malware system for WildFire® production system (>30,000 enterprise users).
 - Initiated, researched and developed machine learning system for malicious PowerShell script detection
 - R&D for AI-based NLP interface for Panorama™ network security management system
- January 2017 - April, 2018 **Cybersecurity Data Scientist** *CyberSight Inc.*
- Completed R&D of machine learning-based anti-ransomware solution in small startup
 - Won Top 10 Best Ransomware Protection of 2018, Editor's Choice (PC Magazine)
 - Developed machine learning features for anti-ransomware solution
- September 2015 - August 2016 **Machine Learning Engineer** *SimInsights Inc.,*
- Implemented online POMDP solver and Inverse Reinforcement Learning for personalized learning
- June 2011 - August 2011 **Research Team Lead** *RIPS UCLA*
- Led team of 4 in implementing algorithm for crime prediction
 - Product utilized by LAPD in Topanga district for Burglary from Motor Vehicle prevention

Authored Content

- December 2019 **Technical Blogger** *InfoSec Institute, Toptal*
- Regular technical blogger for InfoSec Institute's blog (over 1M visits a year)
- December 2019 **Course: Machine Learning for Red Team Hackers** *InfoSec Institute, Udemy*
- In-depth course on the utilization of Machine Learning in pen testing.
- November, 2019 **Book: Machine Learning for Cybersecurity Cookbook** *Packt*
- over 80 recipes for implementing machine learning algorithms for building security systems.
- December, 2018 **Course: Cybersecurity Data Science** *InfoSec Institute, Udemy*
- Educational course on Cybersecurity Data Science

Skills

Python, Keras, Scikit Learn, Hadoop, Spark, R, Shiny, AWS, Cybersecurity, Computer Vision, NLP.

Honors and Awards

- 1st place winning team of the Palo Alto Networks CTF
- Led 2nd place winning team of the San Diego Artificial Intelligence Hackathon
- Led 3rd place winning team of San Diego's Startup Weekend sponsored by Google

Education

- PhD degree, Applied Mathematics, **UC Berkeley**, CA, 2017
- M.S. degree, Computational and Mathematical Engineering (CME), **Stanford University**, CA, 2013
- B.S. degree, Mathematics (Honours), **Stanford University**, CA, 2013