Contact

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github.com/spikeasaurus (Other)

Top Skills

ML (Python, pandas, SQL, TensorFlow, XGBoost)

Hacking (Burp Suite, Metasploit, Nessus)

Google Cloud (BigQuery, Pub/Sub, AutoML)

Languages

Chinese

Certifications

Certified Ethical Hacker (CEH)

TOGAF Certified

Qualys Certified Specialist: Vulnerability Management Detection and Response (VMDR)

Certified Information Systems Security Professional (CISSP)

Certificate of Cloud Security Knowledge (CCSK)

Spike Wang

Applied Research Scientist + Hacker
Sunnyvale

Summary

Following a decade of management consulting and penetration testing, I've begun new adventures deep in the heart of Silicon Valley. Here, I explore ML solutions to security and abuse vectors.

Experience

Kuaishou Technology

Applied Scientist - Trust & Safety
October 2021 - Present (4 months)
Palo Alto, California, United States

I lead data science and security research within T&S:

• Prioritise within T&S, data science and vulnerability research areas (in particular, disinformation / fake news and spam).

• Shape app policies thru data science research (e.g., with ML modeling, predict Kwai app user churn as a function of false positives effecting adverse T&S actions against users)

• Conduct feature engineering to improve ML metrics, such as false positives (FP).

• Clean features with inconsistent or magic entries.

• Surface mobile app weaknesses via pentesting.

California Water Service

Senior ML Engineer - Security
July 2021 - October 2021 (4 months)
San Jose, California, United States

I performed ML engineering and pentesting to discern and sequester security threats:

• Managing threats by RESTfully piping Nessus and Crowdstrike signals, and reacting with automated API calls to Automox and other security appliances, using Python and PowerShell, via Pandas.

• Developing Keras and Tensorflow deep learning (DL) models to predict out-of-compliance and stale entries in security appliances, leveraging PCA to reduce the number of features and avoid overfitting.

• Conducting web app and network pentests using Metasploit and Burp Suite.

Google

Vulnerability Analyst - Trust & Safety (TVC)

January 2020 - June 2021 (1 year 6 months)

Sunnyvale, California, United States

I worked with stakeholders, product teams, and external bug bounty hunters to surface abuse and security vulnerabilities, assess their validity thru pentesting and data analysis, and triage their resolution:

• Pentesting products (using Go, Python, and Burp Suite).

• Analysing data to uncover abuse and security vectors (using Colab and Python data science libraries such as pandas, numpy, and matplotlib).

• Communicating with globally dispersed bug hunters, in English and Chinese.

• Assessing the proposed weakness in the context of implemented controls.

• Remediating materials weaknesses with product teams.

Protiviti

Management Consultant (Engagement Manager) - Security

2017 - 2019 (2 years)

Led remediation of infrastructure security at physically insecure filming sites. Reviewed architecture artifacts and Splunk data to design a cost-advantageous hybrid-cloud architecture.

Deloitte

Management Consultant (Senior Consultant) - Security

October 2011 - February 2017 (5 years 5 months)

• Led a global effort to create a more performant AD sign-in, prioritising DC deployments based on data analysis of network, DC heath, usage, and other data in Splunk. Deployed an AD Forest in Google Cloud, and containerised applications for migration to Kubernetes Engine.

• Uncovered abuse via anomaly analysis of network traffic and application logs, collected using pentesting, and analysed using extensive Pandas and other data science libraries.

The National Institutes of Health

Postbaccalaureate Research Scientist

2009 - 2011 (2 years)

Bethesda, Maryland, United States

• Ensured clean data collection from human and monkey studies, and using these data to create scientific publication -ready visualisations using Python.

• Studied correlations between V4 neuronal signals (with respect to edge detection), and motor behaviour of monkeys.

• Used computer imaging of neuroimaging to better classify and understand schizophrenia.

Education

Cornell University

Bachelor of Science - BS, Aerospace Engineering and Psychology