



Generative Al from a Hacker's Perspective: An opportunity for bad actors

Alex Wood
CEO and Author, Reform Courses

in DigiGov Expo



ALEX WOOD

CYBERCRIME, AI, SOCIAL ENGINEERING & COUNTER FRAUD SPEAKER

Alex's early career was in the music industry. Aged 13 he began to tour the world as a violin soloist and performed under the greatest conductors of the modern era. He was awarded prestigious scholarships to attend the Purcell School, the Royal Academy of Music and the Royal College of Music, won an array of prizes along the way and became a regular guest at Buckingham Palace and Windsor Castle.

Aged 24 his career was abruptly halted by the onset of repetitive strain injury (RSI) in his right hand and faced with mounting debts and no source of income, his criminal career began. His life spiralled out of control, culminating in several years spent in prison for a number of dishonesty offences everything from impersonating the 13th Duke of Marlborough to committing multi-million pound cybercrime.

Since his release from jail in early 2022 Alex has turned his life around and become an immensely powerful force in the Counter Fraud profession. He is a sought after Keynote speaker and commentator across mainstream media.

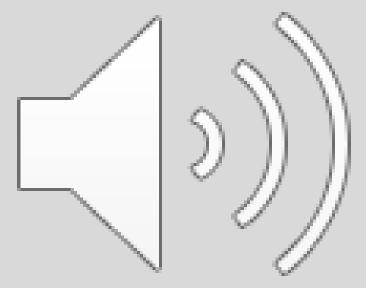
Alex consults for leading global financial institutions (including Tier 1 banks, insurance providers, law firms and risk experts) so as to enable a deep understanding of the 'Fraud Mindset' as well as sophisticated 'Social Engineering' techniques and the threat of emerging tech (including AI).

Alex is working on a national strategy, in partnership with banks, lawyers, Police forces and Government in order to educate children about the risks of involvement in mule activity.

While in prison, Alex was signed by the world-leading literary agent Andrew Lownie. His story is now the subject of a major documentary (in production) by the renowned filmmakers Chris Atkins and Louis Theroux (Mindhouse Productions).

Alex is exclusively represented by Sara Butler at SCAMP Speakers.







'Fake duke' Alex Wood jailed for London hotels fraud

9 December 2015



The Duke of Marlborough (left) is more than 25 years older than Alexander Wood



By Rebecca Camber Crime Correspondent For The Daily Mail



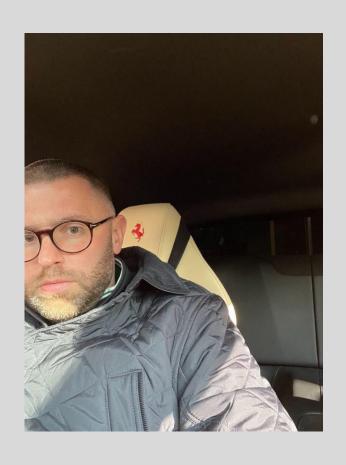


UK news

Fraudster who posed as aristocrat to stay in top London hotels is jailed



Metropolitan Police (Image: Archant)





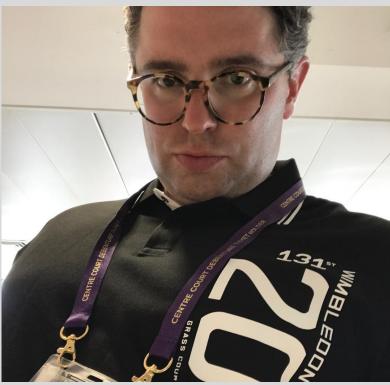


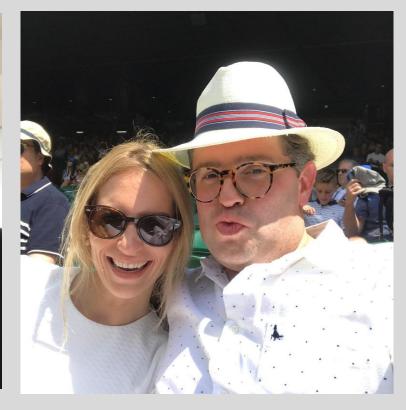






















- Utilised social engineering techniques
- Target company
- Number spoofing
- Voice manipulation / mirroring



- Lay false trail (geolocation)
- "Suspend" gateway (suspicious emails / system lagging)
- Possibility of virus (seeds of doubt)

- Test session (inbound / outbound transactions "frozen")
- Opportunity to opt-out (can visit branch with CPU / server unit).....a far more inconvenient alternative to opting-in
- Psychological pact to proceed





- Test session (no money in / out)
- Carefully log in (do not divulge PINs / codes further reinforcing banks' messaging)
- Padlock diversion

- 'Sync' with balances (last 4) knowledge of values available to steal
- Acquire corresponding mules from the ML team
- Direct to seldom used areas of portal ('vulnerable to virus')

- Inputting of data / generation of 'random' details / authorisation. Innocuous payment references. Are all fields filled (further social engineering)?
- Reverse / repeat
- Counteracting the banks' response (e.g. management of pop-ups / varying of payment references)

GENERATIVE A.I.

"Generative AI" refers to deep-learning models that can generate high-quality text, images, and other content based on the data they were trained on.

IBM Research

GENERATIVE A.I.

"Generative AI" refers to deep-learning models that can take <u>raw data</u> - say, all of Wikipedia or the collected works of Rembrandt - and "learn" to generate statistically probable outputs when prompted.

IBM Research

DEEP FAKE VOICE CLONING

- 3-minute voice sample
- 99% accurate clone

DEEP FAKE VOICE CLONING

www.fakeyou.com

www.resemble.ai

www.elevenlabs.io

www.voice.ai



FRAUD AUTOMATION

Combining Generative A.I. / Chat GPT / Deep Fake:

- APP-style fraud can be automated from start to finish
- Zero-touch fraud
- Opportunity for one bad actor to commit multiple frauds simultaneously

FRAUD AUTOMATION





DEEPFAKE (recent examples)

