

**WORK EXPERIENCE - do i embellish? Minimally... I expect some prep time before having to prove stuff....**

**PDFSage Inc.**

**Burlington, MA, USA**

*Full-Stack and Machine Learning Engineer*

*12/2024 - Present*

- I registered a new C Corporation in Delaware in mid-December 2024, and the IRS received my 100% share purchase in early January 2025.
- I spent the first month working on an **AI PDF** application that also supports a jobs-controller for multi-threading jobs queued in bulk-action. The iOS and web applications are both up and live, with iOS being far superior for now. The **Firestore Auth suite of AIPoint products including PDFSage** has hundreds of users within its first week out. The PDF application is far from finished, and I intend to have it become superior compared to Adobe AcrobatPro across all platforms, after a few more months of work.
- PDFSage **Device Tools** is the most advanced **Swiss Army Knife** iOS has ever seen, and will receive continuous updates so users will always want to have the app within reach.
- In late January 2025, I started developing and designing **models**, including both **ExploitGPT** and **StupidityModel (both classification and generative versions, using multi-layer Transformers**. StupidityModel uses base models while ExploitGPT relies on no base model and is fully proprietary from scratch.
- I also dove into game-development creating the best algorithmically possible Connect 4 AI (with several others in the pipeline), with flawless PvP support across web, iOS, and Android, and further total-integration along with Alpha Zero + premium AIPoints features coming
- Additionally I'm creating a GenAI guide powered by IVS on AWS and YouTube, for live tutorials + chat of how to best use powerful GenAI in engineering, law, and everything else. Generative AI has allowed me to project my abilities by at least 10x fold, and I'm only getting better. I expect to be able to achieve 100x+ efficiency at some point, compared to pre-GenAI work, relatively soon.
- I'd like to note that the AIPoints concept of selling premium features for revenue has **yet to be really developed**. There's very little premium AI available right now, and I'm mostly working on the plumbing that gets users to first use more basic features, and integrating all applications and web portals into the same Firestore Auth AIPoints account. This project is less than 2 months old.

**Various Startups**

**United States and China**

*Engineer and Business Developer*

*2017 - 2024*

- I worked on various startups and projects while also enrolling in a smattering of graduate school classes in computer science. The businesses I've participated in include a nutrition supplement company aiming to help prevent diabetes based in China, a startup idea for a new-generation dating platform, and several others introduced to me by potential co-founders.

**ONE Consulting Inc.**

**Hong Kong, SAR**

*IT Consultant*

*2014 - 2015*

- Helped build out the IT systems of one of Apple's major suppliers who have over \$1B USD in revenue per year.

**Kensho Technologies Inc.**

**Cambridge, MA, USA**

*Product Manager, Events Database*

*2013 - 2014*

- Managed, updated, and maintained a Database of real-world events that were extracted through machine intelligence performed on unstructured real-world using the Python-based scripts
- Performed business intelligence on which types of events may have the most impact on capital markets, and use my business knowledge to write maximally-efficient and lowest-cost computational algorithms to build a Database that was used by users/investors to make capital market trading decisions
- As one of the first 10 employees, my Events Database played a pivotal role in helping Kensho successfully secure Series A and B funding; the Database was later connected to S&P Global's vast datasets, then Kensho was eventually sold to S&P Global for \$550M in 2018

**EDUCATION**

**Harvard University - HarvardX**

**Cambridge, MA**

*Professional Certificate in Computer Science for Artificial Intelligence*

*2023-2025*

*Professional Certificate for Learning Python for Data Science*

*2023-2025*

**Tufts University - School of Engineering**

**Medford, MA**

*Bachelors of Science in Engineering Science, cum laude*

*September 2006 - June 2010*

GPA: 3.4/4.0 undergraduate courses; 4.0/4.0 graduate courses; 3.9/4.0 CS courses

## SKILLS & ACCOMPLISHMENTS

**Python, JavaScript, TypeScript, Tensorflow** (I use it for some), PyTorch (I use it for others), scikit-learn, C++, **Swift, Kotlin, MAUI .net** on Visual Studio IDE (not VSCode) with Azure backend auto-implemented; deep expertise with **Google Cloud and AWS** (I helped the NBA recommend players to draft in a 2019 Google Cloud event at MIT); front-end, servers, **APIs, data science, machine learning, AI, security engineering, XCode, Android Studio**, a little Go, a little Rust, etc.

**Next.js** full-stack routing, **enough Angular (CLI)** to make simple apps work flawlessly, **React, backend** (I have an alternatively working web portal to PDFSage running on Firebase Hosting using Angular, but the Next.js version on pdfsage.me will be used for the foreseeable future due to ease compared to Angular.)

To **previously mock then significantly bolster** my **security credentials**, I tried to initially use TF Keras to create **ExploitGPT v1** but the initial bug was horrific to debug, so then I swapped to Torch, and I have a hard auto-scanner working (improvements to it continuously incoming) + the GenAI works as well, but the scanner results isn't being correctly routed and processed according to all Exploit training data, including all CVEs, the entire exploithub, etc. Eventually a black hat (not red team which only uses the scanner) Googol bot will be implemented to auto RL exploit the living daylight out of any target such as Apple.com

[https://github.com/GhidraDragon/ExploitGPT\\_Torch](https://github.com/GhidraDragon/ExploitGPT_Torch)

Several hours later, ExploitGPT **version 2** using **Tensorflow Keras** finished training and all bugs were fixed with 512 max gen token length, and it generates real exploits based on all CVEs in history + all exploithub + any other training data used!

I have no clue the quality of this SMBv2 starter code, but I'd caution believing in o1 pro without verification:

<https://github.com/GhidraDragon/SMBv2/tree/main>

[https://github.com/GhidraDragon/SMBv2/blob/main/eternal\\_blue.txt](https://github.com/GhidraDragon/SMBv2/blob/main/eternal_blue.txt)

I did create a pretty decent Stripe API though. It's obviously not perfect (however you define that) and I'm not certain if it's flawless (the lack of AppCheck may be the only one I remember) but I do remember it being, even without AppCheck leaving it vulnerable to DDoS, secure.

**Furthermore I've already created definitively the best possible solutions for working games** (initially Connect 4) with adjustable A-B pruning AI difficulty (A-B pruning is just the computer counting the number of unknown nodes and attempting to reduce possibility of loss every turn), functional PvP working across web (Next.js) [pdfsage.me/connect4](https://pdfsage.me/connect4) iOS (GameCenter integration on top; along with leaderboards) <https://apps.apple.com/app/pdf-sage-connect-4/id6741052119> , Android: <https://play.google.com/apps/internaltest/4701251714878707689> , and Windows (+cross platform) via MAUI or Unity (link coming). **True Alpha Zero** and other **premium AIPoints-based features** are coming on top.

**PDFSage iOS 1.12** is approved and has no bugs-ish: <https://apps.apple.com/us/app/pdf-sage/id6739861453>

**PDFSage Device Tools** was initially based on Project Maven (in technology):

<https://apps.apple.com/us/app/info-tools/id6738795431> 1.5 pending review will have much more Kali Linux features and an integrated multi-media player for iCloud mp3 and video. 1.6 will likely include yt-dlp, ffmpeg, IVS via AWS, and full battlefield awareness with hardware controller via mapping LiDAR (full maps) with machine vision and other sensors included in iOS.

One **AIPoints** idea is starter code for **InfinityX**, a next-generation photos library that enforces strict GPS (editable) metadata for beautiful maps-based UI, that supports best-in-class traditional editing, scikit-learn editing better than any available (merge.py), TFLite editing, and Tensorflow full editing. <https://github.com/GhidraDragon/InfinityX>

## STANDARDIZED TEST SCORES

**ASVAB - US Department of Defense:** 141 US Army General Technical - ASVAB 2023 - 4.1 STDEV above median

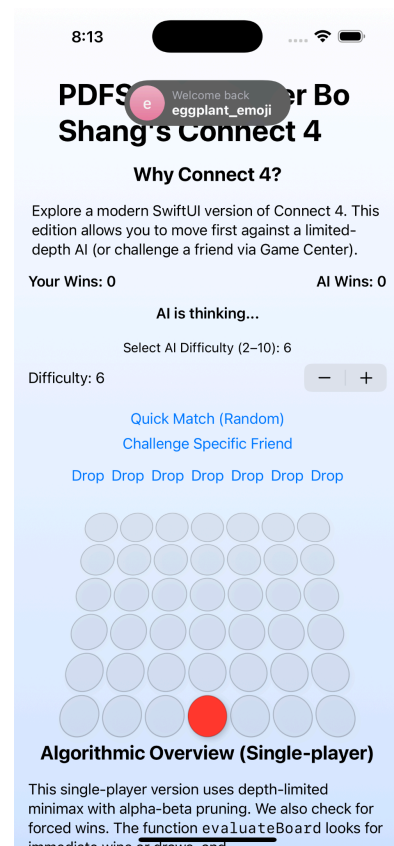
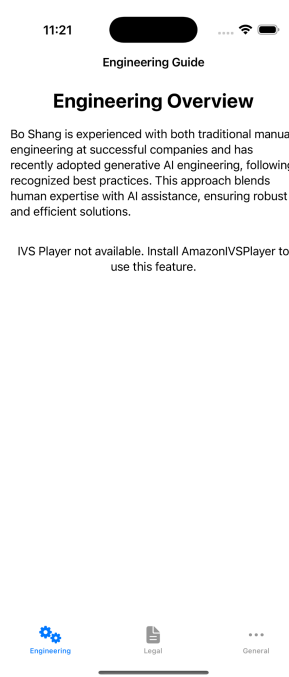
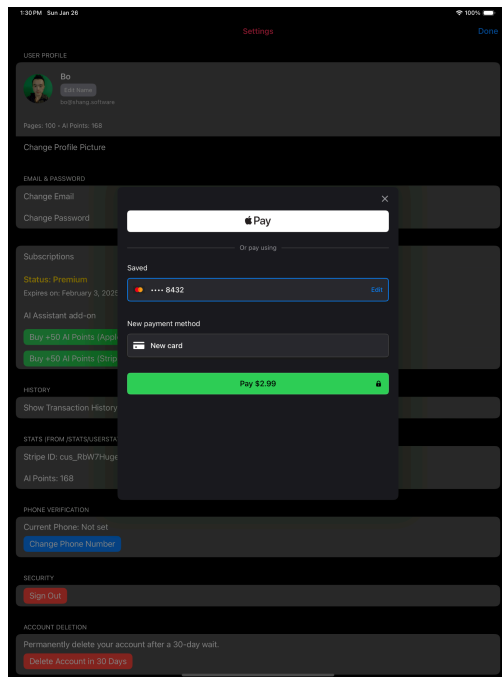
**0 NSA Codebreaker 2024** - I looked at past years solutions and thought p1 would be relatively simple but couldn't figure out what type of database shipping.db was.

As of Jan 31 2025, I'm trying to make up some pseudo points with ExploitGPT, targeting Feb 3 2025 completion for full GenAI

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## SCREENSHOTS

### Stripe on iOS, PDFSage GenAI Guide starter code, and PDFSage Connect4 iOS



## HYPERLINKS

<https://www.pdfsage.me>

<https://www.pdfsage.io>

**Device Tools:** <https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=6738795431>

**PDFSage:** <https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=6739861453>

**Connect 4:** <https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=6741052119>

**Connect 4:** <https://play.google.com/apps/internaltest/4701251714878707689>

**Resume:**

<https://docs.google.com/document/d/1BGPVo0CA-fYbKpizAVYC0jJdaZEDbBuQ3bM68AmcdaU/edit?usp=sharing>

**Legal:** <https://drive.proton.me/urls/K78W0CF7X0#7XtbHrLpv4k9>

**Github:** <https://www.github.com/ghidradragon>

**YouTube:** <https://www.youtube.com/@ghidradragon>

**Website:** <https://www.pdfsage.me>

**o1-pro Enabled pseudo Global Times:** <https://chinadc.net/>

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