Daniel M. Sachs

[ds2393@cornell.edu](mailto:ds2393@cornell.edu) **|** [LinkedIn](http://www.linkedin.com/in/daniel-m-sachs) **|** [danielmsachs.com](http://www.danielmsachs.com/) **|** (917) 201-9330 **|** New York, NY

# EDUCATION

## Cornell University Ithaca, NY

***Bachelor of Science (BS) in Computer Science*** – College of Engineering ***Expected May 2027***

*Concentration: Data Analytics & Machine Learning* GPA: 3.73/4.0

* Relevant coursework: Data Structures, Discrete Math, Object Oriented Programming & Data Structures (Java), Intro to Computer Sci. (Python), Intro to Android Development (Kotlin), Multivariable Calculus for Engineering

## Forest Hills High School Forest Hills, NY

*Academic Honors: Summa Cum Laude, Carl Sagan STEM Program focus in Computer Science* ***June 2023***

* Relevant coursework: AP Computer Science A, Database Technology GPA: 103.22/100

(AWS Cloud Foundation & Architecting), Intro to Electrical Engineering, Economics, Principles of Accounting

# PROFESSIONAL EXPERIENCE

## Cypress Capital Group Remote

***Co-Founder / Software Developer of AIREX (Coming Summer 2024)*** April 2024 – Present

* Co-Founded and developed AIREX, a contract management and AI-driven drafting solution for the real estate industry powered by GPT-4o (React, Next.js, Lexical Editor, Microsoft Azure [Azure Storage, Azure OpenAI, Azure Cognitive Services, Azure Blob Storage], GPT-4o)
* Employed AI-driven features including document analysis, drafting, negotiating, and an interactive AI chat, enhancing document accuracy compliant with state law and user interaction. Achieved a 80% reduction in document draft & review time
* Trained AI models using over 200,000 clauses and 100,000 contracts, significantly improving LLM accuracy and base performance
* Integrated live real estate market data (Zillow, Redfin) into contracts, providing users with up-to-date information and insights

## Purple Palm Design Remote

***Full Stack Web Developer*** November 2023 – May 2024

* Developed and launched 7 commercial websites using HTML, CSS, and JavaScript, resulting in a 20% increase in client acquisition and a 15% boost in online sales
* Assisted in pushing websites into production utilizing shared hosting, editing DNS records, and organizing files on the server
* Exercised exemplary leadership skills to provide support throughout the project life cycle, including conducting tutorials, providing ongoing website maintenance, and timely answering client queries
* Built an operational framework and procedures for developers and designers to follow when engaging with a new client

# PROJECTS

## Credit Genie

*Full-Stack Developer* June 2024 – July 2024

* Processed and cleaned a dataset of 70,000+ entries using Pandas, NumPy, and FancyImpute, addressing missing values, normalizing data, and transforming categorical variables
* Trained multiple machine learning models (Scikit-Learn, Keras, TensorFlow), applying SMOTE for class imbalance and achieving validation accuracies: Gradient Boosting (74.3%), Random Forest (72.9%), SVM (72.0%), and AdaBoost (71.4%)
* Developed a Flask web application for user input and credit score predictions, displaying model confidence levels with Matplotlib pie charts.
* Employed Optuna and Keras Tuner for hyperparameter optimization, enhancing model performance. Utilized ensemble methods, achieving validation accuracies of 73.4% with voting and 73.1% with stacking.

## FoodFinder

*Founder* November 2023 – January 2024

* Users can post/find local eateries with reviews and descriptions
* Implemented frontend and backend services using Android framework and Kotlin, resulting in a seamless user experience and a 40% increase in user engagement
* Managed a team of 4 programmers, achieved improvement in project completion time through effective delegation and coordination

# SKILLS

**Programming:** Python [Advanced], Java [Advanced], Kotlin [Intermediate], JavaScript [Intermediate], SQL [Beginner]

**Tools:** Azure, GPT-4o, NextJS, React, Flask, NumPy, Keras, TensorFlow, SMOTE, Matplotlib, SKLearn, MySQL, AWS, GIT

**Interests:** Gym, Cars, Traveling, Reading