

# Daniel M. Sachs

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## EDUCATION

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### Cornell University

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

*Concentration: Quantitative Analytics & Artificial Intelligence*

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

**Ithaca, NY**

*Expected May 2027*

GPA: 3.45/4.0

### Forest Hills High School

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

- Relevant coursework: AP Computer Science A, Database Technology (AWS Cloud Foundation & Architecting), Intro to Electrical Engineering, Economics, Principles of Accounting

**Forest Hills, NY**

*June 2023*

GPA: 103.22/100

## PROFESSIONAL EXPERIENCE

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### Cypress Capital Group

*Full Stack Software Engineer of AIREX (Expected Fall 2024)*

- 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 SQL, Azure OpenAI, Azure AI Search], GPT-4o, LlamaIndex, Vector Databases)
- Implemented AI-driven features including document analysis, drafting, negotiating, and an interactive AI chat, enhancing document accuracy compliant with state law and user interaction. Achieved an 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

**New York, NY**

April 2024 – Present

### Purple Palm Design

*Full Stack Web Developer*

- 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 implemented data visualization tools to create dashboards for tracking website KPIs, providing developers and designers with actionable insights when engaging with new clients

**Remote**

November 2023 – May 2024

## PROJECTS

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### Credit Genie: Machine Learning for Credit Score Prediction

*Full Stack Developer*

- Processed and cleaned a financial 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

June 2024 – July 2024

### FoodFinder

*Founder*

- 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

November 2023 – January 2024

## SKILLS

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

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

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