

# Charlie Sabino

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## EDUCATION

### The University of Chicago

Chicago, IL

*BA in Computer Science and BA in Economics w/ Specialization in Data Science*

*Expected June 2025*

- GPA: 3.90/4.0 | Dean's List (Top 20% of GPAs school-wide)
- Relevant Coursework: Machine Learning (Grad), Multivariable Calculus, Introduction to Computer Science, Optimization, Economic Analysis
- Activities: Varsity Wrestling, hack@uchicago

### Mountain Lakes High School

Mountain Lakes, NJ

*High School Diploma*

*Sep. 2017 – June 2021*

- GPA: 4.6/4.0 (weighted/unweighted) | SAT: 1570
- Activities: DECA President, Varsity Wrestling Team Captain

## EXPERIENCE

### FoodFight

Sep. 2022 – Present

*Software Development Intern*

*Chicago, IL*

- Developed web, desktop, and mobile applications using Flutter for a startup focused on the peer-to-peer sports gaming and food order marketplace, attaining finalist status at TechStars accelerator
- Integrated data from external sports data API using TypeScript, facilitating 500+ customer transactions
- Rebuilt restaurant-facing web app using NextJS and improved page load speed by 212%

### JUMP Investors

June 2022 – Sep. 2022

*Venture Capital Intern*

*Los Angeles, CA*

- Developed machine learning model to quantify company potential using Crunchbase and LinkedIn data, assisting in the management of current and future investments in early-stage technology companies
- Programmed web scraper in Python for portfolio company which saved 131,343 work hours and outperformed employees' manual data collection accuracy by 40%
- Revised web-based portfolio company's technology stack, reducing page load speed by 76% and improving total clicks by 123%
- Mentored in daily hour-long sessions by Randall Kaplan, co-founder of former S&P 500 listed company Akami Technologies, on leadership, entrepreneurship, and venture capital

## PROJECTS

### DoDates | *TypeScript, Node.js, NextJS, React, tRPC, Prisma, SQL, Stripe, Vercel*

June 2022 – Present

- Developed a full-stack web application allowing users to hold themselves accountable with self-imposed deadlines and financial penalties upon failure to satisfy them
- Stored user data in MySQL database hosted on PlanetScale with horizontal sharding improving API response time by 273% and allowing infinite connections
- Collected customer payment details and billed them asynchronously using setup and payment intent Stripe APIs
- Deployed application to Vercel and employed Serverless Functions resulting in 79% decrease in API response times
- Statically generated pages at build time using NextJS resulting in 813% increase in page load speed
- Implemented SMTP server for magic links and Google OAuth for passwordless user authentication
- Established end-to-end typesafe internal APIs and effortless global state management using tRPC and Prisma

### Algorithmic Trading Model | *Python, scikit-learn, pandas, NumPy, Matplotlib, seaborn*

May 2022

- Trained multiple linear regression, ridge regression, and lasso regression machine learning models on 200+ financial indicators from 4000+ companies' 10-K filings over five years
- Preprocessed data using one hot encoding and robust scaling improving model accuracy by 27%
- Visualized data using third party libraries to ensure data cleanliness, avoiding issues such as colinearity

## SKILLS AND INTERESTS

**Programming Languages:** TypeScript, Node.js, Python, Dart, SQL, L<sup>A</sup>T<sub>E</sub>X, HTML, CSS

**Frameworks and Libraries:** React, NextJS, Prisma, tRPC, Tailwind, pandas, NumPy, Matplotlib, scikit-learn, Flutter

**Tools and Software:** Git, Github, Linux, Vim, Vercel, Google Cloud Platform

**Interests:** Fitness, Nutrition, Coffee, Reading (Brandon Sanderson), Podcasts (Lex Fridman, Huberman Lab)