

AIDAN RUVINS

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EDUCATION

Fordham University, Gabelli School of Business

June 2025 - December 2026

Master's in Finance, Concentration in Investment Management

- Planned Coursework: Computational Finance, FinTech, Advanced Machine Learning, Algorithm Trading, Blockchain & App Dev
- Proofreading Professor's Textbook, *The Power Transition Portfolio: Systematic Geopolitical Analysis*; Capital Markets Club (IB, PE, VC)

Boston University

May 2024

Bachelor of Arts in Computer Science, Minor in Economics

- Relevant coursework: Algorithms and Data Structures, Software Engineering, Full Stack Development, Machine Learning Analytics, Linear Algebra, Discrete Mathematics, Probability and Statistics, Data Science, Computational Theory, Computer Systems
- Treasurer/ Founding Member at PM Ready (Technical Project Manager Club), Student Representative at Ignite Computer Science Council

PROFESSIONAL EXPERIENCE

Voicera

Miami, FL

Full Stack Software Engineer

November 2024 - June 2025

Startup focused on AI-driven behavioral analytics

- Delivered bi-weekly, production-ready feature enhancements and critical bug fixes across React/TypeScript front-end and Node.js/ AWS Lambda back-end, reducing latency by 20% to support real-time inference pipelines
- Led the complete redesign and re-implementation of core user flows (dashboard, login/signup) using React and TypeScript, improving user engagement by 25% and streamlining data capture by securely integrating with AWS Cognito and IAM for scalable user OAuth
- Optimized core RESTful APIs to integrate with AWS services (S3, DynamoDB, etc.), reducing data retrieval latency by 17%
- Offered promotion to Senior Software Engineer; declined to pursue full-time graduate studies

City of Boston

Boston, MA

Data Scientist

September 2023 - December 2023

- Conducted quantitative research in Python across 67 ZIP Codes to identify zoning areas with the highest permit approval probability
- Synthesized real estate trends and statistical analysis into policy recommendations from 5+ large data sets, contributing to decision-making
- Analyzed macroeconomic indicators (e.g., interest rates, GDP growth) and local market trends (e.g., rental rates, vacancy rates)
- Transformed 500,000+ row datasets into investment insights, mirroring due diligence methodologies for real asset underwriting
- Analyzed macro and micro-economic factors impacting real estate values, providing a foundational understanding for property valuation
- Leveraged machine learning models such as Random Forest and XGBoost to predict permit approvals, achieving an accuracy of 71%
- Communicated findings in presentations in front of 200 conference participants, demonstrating the impact of predictive analytics

Nextworld

Denver, CO

Summer Software Engineering Intern

May 2022 - August 2023

Oracle (J.D. Edwards) spinoff company

- Architected and implemented a re-platforming of the internal help desk infrastructure using TypeScript, Angular, and Jasmine unit testing, achieving a 20% improvement in technical problem response time
- Developed a unit testing framework using PHP, PHP Unit, Twig to streamline bug detection by 35%
- Engineered API endpoints connecting to 2 external issue ticketing software and utilized Postman to develop a proof of concept for API calls to Freshdesk and Salesforce services

PROJECTS

IMC Prosperity 3 Global Algorithmic Trading Challenge

Ranked 19th globally out of 20,000+ STEM students

- Executed Python-based algorithmic trading strategies in 5 rounds of the trading competition, achieving a ranking of 19th out of 20,000 students as of round 2, leveraging libraries such as Pandas, NumPy, & Matplotlib, alongside a team of 3 collaborators
- Developed and deployed low-latency Python-based trading bots implementing advanced strategies including market making, statistical arbitrage, and options scalping, demonstrating strong problem-solving and optimization skills.

Facial Recognition Website - [Link to project](#)

- Developed a facial recognition web app to track facial movement and overlay age and gender information in real-time
- Integrated 68-point FaceAPI models in TypeScript and JavaScript to detect emotions such as happiness, sadness, or surprise
- Implemented asynchronous model loading and webcam stream processing using async/await and browser-native Web APIs
- Designed component-based architecture to isolate facial detection and render overlays, enabling easy extensibility for future ML models

Python Stock Trading Algorithm - [Link to project](#)

- Developed and implemented a research project of 14+ Python finance projects with the goal of designing a personal trading algorithm, focusing on portfolio optimization, algorithmic trading, and financial risk management using Pandas and Matplotlib
- Implemented advanced models for stock market simulation including Financial Time Series Analysis (ARIMA, GARCH, LSTM), Fixed-Income Modeling (Vasicek), and Option Pricing Modeling (Black-Scholes)

SKILLS & INTERESTS

Skills: Excel, Python, Java, JavaScript, TypeScript, AWS (S3, DynamoDB, Cognito, etc.), Git, REST APIs, Figma, Machine Learning

Hobbies: Water Polo ([Junior Olympian/1st Place Regional Champion](#)), Skiing, Snowboarding, Leetcode (245 Problems Solved)