# Antony Ponomarev

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## EDUCATION

**Boston University** — Boston, Ma

*Bachelors in computer Science and Mathematics* — GPA: 3.8/4.0 — May 2025

*Masters in Computer Science* — May 2026

## WORK EXPERIENCE

**Political Misinformation Research** — Boston, Ma

*Software Engineer Intern* — May, 2024 – Present

- Limit online misinformation through economics and behavioral science theories that aim to change market incentives. Developed a two-sided marketplace with up to 10 v 10 players sharing potentially fake advertisements in real time. .
- Generated hypotheses, tested them using online experiments with recruited participants.
- More information about the lab with BU and MIT can be found here: https://truthmarket.com/

**School Bus Tracking Application (Start up)** — Boston, Ma

*Software Engineer* — January, 2024 – Present

- Co-developed a real-time school bus tracking app using Swift, providing parents with accurate location updates of their children's buses, enhancing safety and convenience.
- Integrated Maps API to allow tracking and route visualization, for parents to better accommodate for their kids.
- Actively working with local school districts in an attempt to test and in time, deploy

## PROJECT WORK

**Sports Arbitrage Calculator**

- Developed a sports arbitrage calculator using Python, enabling users to identify arbitrage between multiple websites.
- Created a custom API to automatically gather and aggregate data from various websites, ensuring up-to-the-minute accuracy for calculations.
- Utilized web scraping and API integration techniques to fetch and standardize odds data from diverse sources, optimizing for speed and reliability.

**Monte Carlo Options Pricing Model**

- Developed a Monte Carlo options pricing calculator to simulate and estimate the fair value of financial options, leveraging stochastic modeling techniques.
- Generates random paths for the price of an underlying asset and calculates associate payoffs
- Developed in C++

**Algorithm Trading Engine**

- Developed a server-client architecture to facilitate peer-to-peer stock trading, enabling users to buy and sell shares directly with one another.
- Created a backend server to manage user accounts, process transactions, and maintain a secure record of all trades.
- Designed and built a simple yet effective user interface, allowing users to view stock prices, place orders, and track their trading history.

**Simple Computer Language compiler and interpreter**

- Designed and implemented a simple language compiler/interpreter using OCaml, translating custom code into executable instructions.
- Implemented core language features, including variable declarations, control flow statements, and arithmetic operations, providing a functional programming environment.

## EXTRA SECTION

**Varsity Swim Team**

- A part of the Boston University varsity men's swim team

## SKILLS

**Technical Skills** JS, CSS, HTML, Python, java, C/C#/C++, git, bash, SQL