Andrew Sima

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Education

Harvard University   Cambridge, MA
A.B. in Computer Science and Economics, S.M. candidate in Computer Science   December 2024
- Selected Coursework: Microeconomics, Macroeconomics, Political Economics of Globalization, Russian Literature, Operating Systems, Compilers, Data Structures & Algorithms, Advanced Computer Networks, Probability, Distributed Systems
- Teaching: Systems Programming and Machine Organization, Abstraction and Design in Computation
- Awards: USA Physics Olympiad Silver Medalist, USA Computing Olympiad Gold Division, AIME Qualifier (4x)
- GPA: 3.84/4.00, ACT: 36/36

Leadership

Wehedge | Co-Founder & CTO   Cambridge, MA
A social platform providing Gen-Z retail investors with market transparency and intelligence   May 2022 – October 2022
- Bootstrapped software infrastructure, made first engineering hire, developed iOS MVP and company landing page, secured first advisor and contacted prospective investors, negotiated exit

Harvard Data Analytics Group | Case Team Leader   Cambridge, MA
An on-campus consulting organization leveraging data for business intelligence   January 2021 – January 2022
- Managed team of 6 analysts to build an ML prediction algorithm for price estimation of baseball cards using image-processing and text-parsing, designed data architecture and pipeline for end-to-end scraping, cleaning, and storage of card data
- Processed ~3TB of card images and metadata, delivered full dataset and predictive model to customer

Photon Commerce | Payments Lead   San Francisco, CA
A startup channeling computer vision and NLP for instant document-processing   July 2020 – April 2021
- Reported directly to CEO, designed payments workflow from scratch and managed all payments-related infrastructure
- Conducted API research and competitor analysis on electronic payments space, led outreach and discussion with potential partners
- Developed management features requested by supply chain vendors in under a week, built data migration algorithm to cut data scaling costs, recovered ~300MB of corrupted customer data

Professional Experience

Schonfeld Strategic Advisors | Software Engineer Intern, Portfolio Management   New York, New York
Delivering risk-adjusted returns using technology infrastructure and quantitative trading strategies   May 2022 – August 2022
- Built a post-trade operational data platform for managing positions, trades, and executions for use by portfolio managers

Robinhood | Backend Engineer Intern, Crypto   Menlo Park, CA
Democratizing finance through commission-free trading   January 2022 – May 2022
- Redesigned venue settlement and wallet rebalance workflow for crypto transactions firmwide, built dashboard to aid operations team in wallet balance management, developed new service to compute on-chain wallet balance and perform reconciliation

Astranis | Software Engineer Intern, Ground Services   San Francisco, CA
Bringing internet access to 4 billion people using next-generation satellites   May 2021 – August 2021
- Owned development of application for managing commands sent to satellite in orbit, implemented robust authentication framework, improved visualization and response to incoming telemetry data from satellite

Turquoise Moose | Analyst, Marketing and Growth   San Francisco, CA
Providing artists and creators with premium quality turquoise gemstones   June 2020 – September 2020
- Conducted weekly e-commerce jewelry market analysis presentations and business model evaluation to CEO
- Designed jewelry tele-marketing campaign to reach ~200 potential trade school and independent artists partners nationwide

Skills and Interests

Technical: *Languages* - C++, Python, Java, Rust, Golang | *Web* - React, Javascript/HTML/CSS | *iOS* - Swift | *Infrastructure* - AWS | *Data Analysis* - Microsoft Excel

Foreign Languages: English, Chinese (Mandarin)

Interests: satellites, computer chips, blockchain, tennis, classical violin, chess, billiards, golf