ARPAN BAGUI

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EDUCATION

University of Pennsylvania – The Wharton School, School of Engineering and Applied Science *Philadelphia, PA*
- *Master of Science in Engineering:* Computer and Information Technology **May 2025**
- *Bachelor of Science in Economics:* Concentration in Statistics **December 2024**
- Cumulative GPA: 3.61/4.00

King High School - International Baccalaureate Program *Tampa, FL*
- SAT Score: 1580/1600 | ACT Score: 36/36 | Cumulative GPA: 4.00/4.00 **May 2020**
- Accomplishments: USA National Debate Team, National Merit Scholar, Lincoln-Douglas Debate Team Captain

TECHNICAL SKILLS and PROJECTS

Skills: Python (data science and scripting); Java (modular applications and algorithms); Web Development (React frontend and MongoDB backend); HTML, CSS; Statistical analysis (regression and probability models); Financial Modeling (Excel)

Statistical Arbitrage Bot – *Personal Project* **July 2023**
- Utilized the dYdX API to implement a cointegration-based statistical arbitrage strategy hosted on AWS

Cowboy Samurai – *Programming Languages and Techniques Class* **April 2023**
- Built a basic 2D side-scrolling game using Java; utilized multiple data structures; multi-threading; and modular design

Trading Algorithm – *CryptoDash* **May 2021 – September 2021**
- Utilized web-scraping and APIs to develop an algorithm that bought or sold an asset based on social media sentiment

RELEVANT COURSEWORK

Programming Languages and Techniques; Computer Data Exploration; Modern Data Mining; Big Data Analytics; Probability; Applied Probability Models; Mathematical Foundations of Computer Science*; Computer Systems*

EXPERIENCE

Treehouse Finance – *Product Management Internship,* Singapore, Singapore **June 2023 – Present**
- Coordinating and leading a development, design, and marketing team to ship a feature for our markets intelligence dashboard that shows traders to monitor large market movements and "whale" transactions
- Utilized data API calls and Black-Scholes pricing model to plot options volatility skew as additional metric for product

AlphaLab Capital – *Venture Capital Analyst,* Remote **January 2023 – Present**
- Informed investment decisions through in-depth market research and founder interviews in industries such as debt capital market exchanges, privacy layer solutions, and MEV capture protocols
- Forecasted startup enterprise values by performing regressions and applying probability models on market size

VO₂ Sports-Crypto Startup – *Co-Founder and COO,* San Francisco, CA **October 2021 – November 2022**
- Founded a blockchain-enabled engagement platform to enhance the sports fan experience (www.vo2.fans)
- Pitched to investors to raise $400K at an 8M valuation, led partnership initiative with world-class MMA fighter Tony Ferguson to launch product, participated in Techstars startup accelerator to receive leadership and startup training

CryptoDash – *Data Science Engineer*, Philadelphia, PA **May 2021 – September 2021**
- Co-creator of cryptocurrency solution that pairs fundamental analysis with data analytics to create a software dashboard and data product that advises sound blockchain protocol investments

LEADERSHIP EXPERIENCE

Delta Sigma Pi – *Vice President* **September 2022 – Present**
- Managing operations and finances for co-ed business fraternity with 66 members, monitoring and maintaining a budget of over $20K, managing and coordinating individuals to plan and host events (professional and social)

Freaks of The Beat (Breakdancing Team) – *President* **January 2023 – Present**
- Organized Penn's annual breakdancing jam that attracted over 80 dancers from across the world
- Coordinate tri-weekly campus practices and occasional social events for team of 15 members

INTERESTS

Breakdancing; blockchain and fintech; NBA, NFL, Premier League