

Ayushvardhan Singh

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EDUCATION

The University of Chicago

Chicago, IL

Master of Science in Financial Mathematics – Maroon Scholar

Expected December 2025

- Courses: Portfolio Theory & Risk Management, Python, Option Pricing, Probability & Stochastic Processes

Purdue University

West Lafayette, IN

Bachelor of Science in Mechanical Engineering – Goss Scholar, Minor in Economics

May 2024

- Courses: Differential Equations, Linear Algebra, Multivariable Calculus, Partial Differential Equations, Statistical Theory & Analysis, Microeconomics, Macroeconomics, Game Theory
- Dean's List and Semester Honors all semesters

SKILLS

Computing: Microsoft Office Suite, VBA, C Programming, R, Python, Java, MATLAB

Knowledge: Financial Markets, Machine Learning, Statistical Modeling, Data Analytics, Market Research

EXPERIENCE

360 One Wealth and Asset Management

Mumbai, India

Quantitative Analyst Intern

June 2024 – Present

- Assist in the development and backtesting of quantitative models for portfolio optimization
- Evaluate the performance of multiple mutual funds, using active weights and momentum factors, to identify suitable options for the firms clients portfolios
- Conduct comprehensive market research to identify trends and potential investment opportunities across equity and fixed income markets

Citadel Management Pvt. Ltd.

Hyderabad, India

Investment Banking Analyst Intern

May 2023 – July 2023

- Provided support on live \$200mn deal by performing market research on US Contract Development and Manufacturing Organization (CDMO) and by conducting due diligence by evaluating financial models
- Conducted in-depth research on Indian Cloud and Digital Transformation market to support a live investment mandate and to scan the sector for potential targets

o3 Capital Global Advisory

Mumbai, India

Investment Banking Analyst Intern – Pharmaceuticals Team

June 2022 – August 2022

- Evaluated investment opportunities in global pharmaceutical space by analyzing 150+ global CDMO companies
- Assisted three live investment mandates by researching the Indian CDMO landscape and preparing detailed profiles of 40+ public and private pure play CDMO companies

RESEARCH

Birck Nanotechnology Center, Purdue University

West Lafayette, IN

Nanotechnology and its application with Supercapacitor Electrodes

January 2022 – May 2022

- Synthesized and mathematically modeled CNT-ZIF-eMoS₂ samples to compute specific capacitance, energy density and power density
- Awarded prestigious SURF fellowship to further pursue research

EXTRACURRICULAR

Purdue University

West Lafayette, IN

Director of Strategic Planning and Assessment, Purdue Student Government

August 2021 – May 2022

- Collaborated with other executive committees and faculty to host recreational events for student body
- Collated and analyzed student responses to prepare in-depth reports about their grievances and recommendations, while also including an indicative action plan for policy revamp

ADDITIONAL INFORMATION

Languages: Hindi (native), French (intermediate), Spanish (beginner)

Interests: Science fiction, historical fiction, art history, badminton, padel