

Edward R. Schembor

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Education

JOHNS HOPKINS UNIVERSITY, 2012 – Present, B.S Computer Science

- Minors in Applied Mathematics & Statistics and Physics
- Relevant CS Courses: Data Structures, Automata Theory, Distributed Systems*, Object-Oriented Software Design* (* represents a graduate level course)
- Relevant Analytical Courses: Differential Equations, Linear Algebra, Multivariable Calculus, Special Relativity and Waves, Lagrangian Mechanics
- Beta Theta Pi Fraternity – Community Service Chair, Webmaster

RED BANK REGIONAL HIGH SCHOOL, 2008 – 2012

- **SAT: Math** – 780 **Reading** – 720 **Writing** – 750 **Total** – 2250
- Performed research on fractal use in disaster prevention civil engineering

Work Experience

WORLDQUANT LLC, Research Consultant, Fall 2014 – Present

- Researched quantitative trading strategies for statistical arbitrage.
- Implemented said trading strategies in Python and further matured them through rigorous back testing.

BANK OF NEW YORK MELLON, Technology Summer Associate, Summer 2014

- Worked in the Infrastructure, Architecture, and Engineering Labs.
- Worked on developing a log monitoring system in Splunk, relying heavily on regular expressions.
- Used the graph database Neo4j to show dependencies between BNY Mellon infrastructure components in order better facilitate recovery in cases of failure.
- Led a project for the CIO developing a social graph of BNY Mellon's internal social media platform, again using the Neo4j graph database.

SPACE TELESCOPE SCIENCE INSTITUTE, Research Intern, Summer/Fall 2013

- Performed research involving changes in the morphologies of early type galaxies in the AEGIS Survey dataset. Created Python scripts to analyze relevant astronomical data and process galaxy images from the survey.
- Invited to join the international Cosmic Assembly Near-Infrared Deep Extragalactic Legacy Survey (CANDELS) Team and worked classifying galaxies and helping to review papers. Was the first undergraduate to join the team.

Awards and Recognition

- JHU Dean's List (GPA ≥ 3.5) – Spring 2014
- JHU Greek Life Community Service Award – 2014
- 11th Place – 2014 WorldQuant,LLC Statistical Arbitrage Competition – North American Region
- US Naval Research Laboratory Research Award - North Jersey Regional Science Fair
- 3rd Place for Mathematics/Computer Science Research – North Jersey Regional Science Fair

Relevant Skills and Interests

Significant computer skills: C/C++, Java, Python

Experience With: HTML, CSS, SQL, UNIX, JUnit Testing, Neo4j, Git, TCP/IP