Samuel Showalter

samuelrshowalter@gmail.com | 260.249.4459
810 Deer Cliff Court, Fort Wayne IN | 46804

EDUCATION

DEPAUW UNIVERSITY
BA in Mathematics
BA in Economics
Computer Science Minor
College of Liberal Arts
Cum. GPA: 4.00 / 4.00

**HOMESTEAD
HIGH SCHOOL**
Grad. May 2014
Fort Wayne, IN

LINKS

Portfolio:// samuelrshowalter
LinkedIn:// samuelrshowalter
GitHub:// samshowalter

COURSEWORK

UNDERGRADUATE
Data Structures
Object Oriented Prog.
Artificial Intelligence
Data Mining (TA)
Computational Statistics
Regressions/Simulations
Financial Engineering
Financial Mathematics
Probability Theory
Corporate Finance
Financial Accounting

ABROAD
China (Jan. 2015)
Ecuador (Jan. 2016)

SKILLS

PROGRAMMING
Professional Experience:
Python • SQL

Working Proficiency:
Java • R • C++ • LaTeX •
GitHub • ETL • STATA

Familiar:
Scala • Tensorflow • Selenium

MODELING
Financial Engineering:
Markov Chains
Monte Carlo Simulations
Efficient Frontier
Hedging (Beta, Delta)

EXPERIENCE

WEST MONROE PARTNERS | Technology Consultant, Data Scientist
February 2017 – Aug 2017, Aug 2018 - Present | Chicago, IL
- Lead data scientist for JP Morgan Chase data privacy classification initiative (6 months)
- Developed end-to-end ML pipeline; DAG framework; extracted semantic context from metadata; visualization with Luigi; flexible modeling; continuous learning and feedback
- Automated customer segmentation analysis for multiple clients; python Flask application
- Youngest member of leadership building Data Science training course for new employees.
- Advise, assess, and teach billion dollar organizations about Machine Learning and AI

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
Quantum Computing Software Developer
May 2018 – Aug. 2018 | Boulder, CO
- Highly selective research fellowship given to approximately 20 students nationally
- Developed Python-based quantum state tomography software to characterize qubits
- Custom built entire package, including ML and gradient-based optimization algorithms
- Presented to 40 person research cohort and coordinated with Computer Science PhD students to parallelize solution. Will be included in future publication.

84.51° | Custom Insights Analyst
May 2016 – August 2016 | Cincinnati, OH
- Created diagnostic 2,000 line SQL program to screen Controlled Store Tests (CSTs) for executional issues; saves analysts approximately 4 - 8 hours per test with issue
- Evaluated the fiscal viability of strategic recommendations for Kroger and other clients
- Program to be converted into PL/SQL and integrated across the company

LEADERSHIP

DPU DATA SCIENCE GROUP | Founder & President (Apr. 2017 - May 2018)
April 2017 – May 2018 | Greencastle, IN
- Created 30+ student led Data Science and artificial intelligence group; built website
- Gathered leadership team and developed all club materials; coordinate speaker visits
- Connected Trello, Github, and Slack functionality to simulate an Agile framework

DEPAUW INVESTMENT GROUP | Co-President (Feb. 2017 - May 2018)
August 2014 – May 2018 | Greencastle, IN
- Managed $170,000 of University endowment funding; manage website and portfolio data
- Coordinated restructure of group to operate as asset management firm in fall 2017
- Oversaw 7 sector coverage groups and integrate coverage reports into fund briefings

CIVIC FELLOWS PROGRAM | Treasurer (May 2016 - Dec. 2016)
August 2014 – May 2018 | Greencastle, IN
- Managed a $2500+ budget; allocate to large charity events including Service Plunge
- Coordinated large (100+ student) events around campus (30+ hours of service/semester)
- Selected as 1 of 7 to join elite civic service and advocacy organization (4 year commitment)

MANAGEMENT FELLOWS | Leadership Council (Aug. 2014 - May 2015)
August 2014 – May 2018 | Greencastle, IN
- Elected position; represented class of 50+ fellows interacting with program leadership
- Selective program with a core curriculum, lecture series, and semester long internship

Supervised Algorithms:
Random Forest
Naive Bayes Classification
K-Nearest Neighbors
Support Vector Machine
Logistic Regression
Neural Networks

CERTIFICATIONS
SOA Actuarial Exam P
SOA Actuarial Exam FM

TEST SCORES
GRE | 330
- Quant: 167
- Reading: 163
- Writing: 6/6

SAT | 2220
- Quant: 800
- Reading: 710
- Writing: 710

SOCIETIES
Phi Beta Kappa

RESEARCH

DEPAUW UNIVERSITY | Mathematics
Jan. 2018 – May 2018 | Greencastle, IN
- Developed AI platform to minimize societal cost of fraud with limited and imbalanced data
- Winner of Prindle Technology Prize and presented at RHIT mathematics conference

DEPAUW UNIVERSITY | Economics
Jan. 2018 – May 2018 | Greencastle, IN
- Investigated weak-form efficient market hypothesis with algorithmic trading platform
- Compared machine learning findings with traditional ADF and Variance Ratio tests

PURDUE UNIVERSITY | Chemistry
May 2015 – August 2015 | Lafayette, IN
- Specialized in coordinating ligands to Iridium complexes for stabilization purposes
- Stabilized a Rhodium complex with a tridentate amine ligand; generated a crystal

INVOLVEMENT

DEPAUW IB WORKSHOP May 2016 – Dec. 2016 | Greencastle, IN
- Selective program dedicated to placing driven students in top investment banking firms
- Visited and interviewed with five large investment banks; completed mock workshops

PUBLICATIONS

Berque D., Chiba H., Hashizume A., Kurosu M. and Showalter S. Cuteness in Japanese Design: Investigating perceptions of Kawaii among American College Students, Proceedings of the 9th International Conference on Applied Human Factors and Ergonomics, July 2018, Orlando, Florida, Springer.

AWARDS

Edward Rector Scholarship: DePauw's pre-eminent merit scholarship; one of 12; full tuition
Randal L. Wilson Award: Awarded to Junior who "has contributed most to field of economics"
Frank T. Carlton Award: Awarded to the outstanding senior economics major
H.E.H. Greenleaf Award: Awarded to the outstanding senior mathematics major
Prindle Technology Prize: Student who develops innovative technology related to ethics