John Doe

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EDUCATION

BA IN COMPUTER SCIENCE AND MATHEMATICS
Oberlin College
Expected May 2021 | Oberlin, OH
Concentration in Statistical Modeling
Minor in Economics
Major GPA 3.85/4.00
Overall GPA: 3.84/ 4.00

SKILLS

PROGRAMMING
Advanced:
Python • Java • Cython
• LaTeX

Intermediate:
C • R • Bash • SQL

TOOLS AND FRAMEWORKS
Pandas • Numpy • Keras
• Tensorflow • Flask

COURSEWORK

Advanced Algorithms
Data Structures
Discrete Mathematics
Artificial Intelligence
Linear Algebra
Machine Learning
Statistical Modelling

INTERESTS

Machine Learning
Anime
Algorithmic Game Theory
Bayesian Statistics
Multi-Agent Systems
Quantum Computation
Behavioral Economics

EXPERIENCE

MORGAN STANLEY | Quantitative Strategies and Modelling Intern
May 2019 - Aug 2019 | New York, NY
- Researched and created a statistical model of order flows in the Agency MBS TBA market using **Python, Numpy and Pandas**
- Designed and implemented data processing pipelines to improve the efficiency of the Agency MBS desk in **Q/kdb+**
- Developed trading algorithms around my model that could generate **$13M** in profits over 2 years

TWO SIGMA | Software Engineering Intern
May 2018 - Aug 2018 | Houston, TX
- Developed and implemented a payment gateway in **Java** compliant with the SWIFT protocol that simplified the transfer of money to our margin providers.
- Designed front-end web and excel interfaces to the service that displayed data and analytics for diagnosing and preventing errors in wire transfers.
- The service is utilized over **550+** times per week to transfer **$4.5B** weekly.

TEEVO | Software Engineer
Sep 2016 - Mar 2017 | Lagos, Nigeria
- Developed Palm Tasks an internal software tool used by office administrators to track and improve employee productivity and task management, using **Python, MongoDB, Flask/Jinja2 and HTML/CSS/JS** which increased productivity **20%** (measured by tasks completed).
- Applied data analytics and machine learning for the generation of ideas to increase engagement and retention of teenagers on the Teevo suite of (mobile and online) products, using **Numpy, Pandas and Scikit-learn** which enabled the company to grow its user ship **100%** per month.

RESEARCH

ALGORITHMIC GAME THEORY | Researcher
Sep 2018 - Present. | Oberlin College Computer Science Department
- Engaged in paid research under supervision from professor **Jane Doe**
- Studied the equilibria of First Price Auctions with low welfare.
- Developed and implemented numerical techniques for optimizing worst case first price auction instances.

DISTRIBUTED COMPUTING | Researcher
Jan 2018 - Feb 2018 | Oberlin College Winter Term
- Overhauled supercomputer nodes by replacing hardware, installing operating systems and implementing distributed computing frameworks with Spark.
- Implemented a distributed version of linear regression using functional programming through Scala.

ACTIVITIES AND LEADERSHIP

Nov 2018 - Present	Computer Science Majors Committee (Member)
Sep 2017 - Present	African Students Association (ASA)
Sep 2017 - Present	Computer Science and Hackathon Club (President & Founder)

AWARDS AND RECOGNITION

2019	top 10%	Tapia Scholarship Recipient
2016	1st/1000	Teevo Special Recognition for Innovation Award