

Luke Geel
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March 2022

Dear hiring manager,

My name is Luke Geel, and I am writing to express my interest in the Data Science Internship position for the summer of 2022. Through diligent research I know that Salesforce has opportunities in the exact type of work that I am interested in which is Data Science to make the world a more simpler and productive place. From what I've learned from research, Salesforce is great to work for and I would be honored to be a part of the team. I am certain that my work experience and relevant skills make me an ideal candidate for this position. I am interested in this position as I know it will give me the real-life experience that I desire but also help guide my professional development. I'm working towards becoming a data scientist once I graduate in 2023.

I'm interested in the field of data science for two reasons, my love of math and my enjoyment of problem solving. My love of math started at a very young age. When I got bored with the math I was being taught at my elementary school, I enrolled at the Russian School of Mathematics where I was a high-achieving student for 6 years. I thoroughly enjoyed RSM as I was being taught math that was challenging, and I love a good challenge. In addition to RSM, I've been a member of my schools' math teams every year since elementary school. This includes the math team at UMass where I've listened to speakers, participated in problem solving events, as well as nation-wide math competitions. My senior year of high school I was the statistician for the varsity football team where I used stats and analytical skills to analyze different plays to find the one with the highest success rate in different situations and helped the team get to the semifinals with a near undefeated season. Go Lincoln-Sudbury Warriors!

While at university, I have been able to maintain a 4.0 major gpa with a very heavy course load in order to graduate with two degrees, one in math and another in either economics or computer science (I haven't decided yet). I've made the Dean's list all semesters and I am a recipient of the Stanley Z. Koplik scholarship both years. I've taken coursework in relevant subjects that I know will help me succeed in this program including Calculus 4, probability, statistics, applied linear algebra, mathematical modelling and multiple computer science courses where I developed skills in Python, Java, R, SQL, and MATLAB. I am also a member of the snowboard club and I am the assistant treasurer for my fraternity, the Mu Epsilon chapter of Sigma Chi.

I would make a great addition to the Salesforce team due to the skills I have. I am proud of my time management skills as I've been able to complete a heavy course load with great grades while participating in multiple clubs, a fraternity position, and volunteering events. I know what it's like to work in a fast-paced environment alongside a team with my 7 total years of experience at two restaurants and as a lifeguard. Finally, I thoroughly enjoy problem solving and analysis and I am currently working on an statistical analytics presentation focused on how Covid-19 affected our schools finances in my spare time with an econ major in my fraternity. I am using what I've learned in R, SQL, and statistics to find answers to questions

we posed. Additionally, I completed a 12 week internship last summer at Parexel, a clinical research organization, where I was the scientific data organization intern. This internship gave me fantastic experience working alongside a team of highly skilled individuals and great experience working, analyzing, and modelling big data. It helped me advance my skills in R, SQL, Python, and being able to work alongside a time and also individually. I thoroughly enjoyed this internship and it only made me love data science even more.

Thank you for taking the time to consider my application and I sincerely look forward to hearing from you. My contact information is above.

Warm regards, Luke Geel

Luke Geel

Job description:

The Data Science Internship position provides an opportunity for students who are currently pursuing a data science, mathematics, statistics, or similar major in your degree to get hands on experience working with finance, business analysts, and data engineers in a life sciences business environment. The data science intern will contribute to projects and build new practice standards. The position starts in June, paid working 40 hours per week through August. Opportunity exists for this position to continue through the academic year on a part-time basis to allow for class schedules

Essential Functions:

1. Contribute and build optimization models for scenario testing future business outcomes based on internal and external data
2. Identify and present predictive drivers/leading indicators, trends, outliers, and patterns that uncover new insights to help guide enterprise-wide business insights
3. Derive data driven insights in close partnership with Finance, Operations, Commercial, and Data Science teams to expose opportunities for revenue and cost optimization with resource allocation
4. Leverage visualization tools and frameworks including D3.js, React and Power Bi to perform interactive data exploration that help businesses and senior leaders understand impact of identified opportunities
5. Build process and training documentation standards using data science within the finance function

Specific tasks will be tailored to the software interns experience level and abilities

Skills and Abilities

1. Ability to work independently and as a member of a cross-functional team
2. Willingness to learn, be mentored, and improve
3. Excellent verbal / written communication skills with attention to detail
4. Desire to teach other analysts about data science techniques and technologies in area of expertise
5. Familiarity with of least one programming language of R, Python, SQL

Qualifications

1. Student currently enrolled in classes leading to an accredited degree in a major that supports the data science discipline
2. Prior business experience or portfolio applying data science techniques in a finance field or global data company preferred

LUKE GEEL

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EDUCATION

University of Massachusetts - Amherst

Amherst, Ma

B.S. Mathematics - concentration in Statistics & Data Science

Sept. 2019 - May 2023

B.S. Economics

Major GPA: 4.0

COURSEWORK

- | | | | | |
|--------------------------------|------------------------------------|----------------------------|-------------------------------------|---------------------------|
| • Math Tools for Data Science | • Intro to SQL | • Mathematical Modeling | • Linear Algebra | • Micro & Macro Economics |
| • Intro to Data Science with R | • Intro to Computer Science (Java) | • Statistics & Probability | • Advanced & Multivariable Calculus | • Financial Mathematics |

EXPERIENCE

Parexel

June 2021 – Sept. 2021

Scientific Data Organization Intern

Newton, Ma

- Collaborated closely with data governance team to assist in projects and tasks
- Aided on machine learning style projects such as an automatic word processor program
- Helped build & communicate models to all levels of leadership company wide
- Used SQL to obtain and extract data from large databases

Conrad's Restaurant

Nov. 2016 – Sept. 2020

Host and Bus boy

Sudbury, Ma

- Maintained position all throughout high school year-round, 20-40 hours/week
- Gained ability to work independently in a fast-paced environment
- Communicated clearly and positively with coworkers, management and customers

SKILLS

Languages: Java, Python, SQL, R, MatLab

Developer Tools: L^AT_EX, RStudio, GitHub, Power BI, Microsoft Excel, Word, Powerpoint

EXTRACURRICULAR

UMass Amherst

March 2020 – Present

Sigma Chi Fraternity

Amherst, Ma

- Positions: Assistant treasurer, house manager, assistant new member educator

Clubs

- Member of math, snowboard, & chess club. Founder and VP of data science club.

PROJECTS

Sigma Chi Poker League

April 2021

- Created an international charity poker league for all Sigma Chi brothers & alumni.
- Helped develop and manage a website to maintain popularity.
- Currently raised over \$7000 for Huntsman Institute for cancer research.

Statistical Analysis of Effect of Covid-19 on UMass Amherst's Finances

Nov 2021

- Collaborating with an Econ major to present findings on how Covid-19 affected UMass' finances in 2020
- Building an easy to use website to showcase our findings, plan to get published in UMass newspaper
- Using R and stats skills to model, analyze, and predict UMass' financial situation, operating cost, revenue...

INTERESTS

- | | | |
|--------------------------------------|--------------------|--------------------|
| • Snowboarding | • Film & Reading | • Data Science |
| • Dual citizen (U.S. & South Africa) | • Entrepreneurship | • Animals |
| | • Real estate | • Machine learning |
| | • Poker | |