**Wolfie Seawolf**

Stony Brook, NY | wolfie.seawolf@stonybrook.edu | (631) 654-3211

https://www.linkedin.com/wolfie | https://github.com/wolfie

December 20, 2021

John Doe

Hiring Manager

2211 North First Street

San Jose, CA 95131, USA

Dear John Doe,

I was excited to learn about the Data Analyst Intern position at PayPal. I discovered this opportunity through the Stony Brook University (SBU) Handshake recruiting and career services platform. I am currently pursuing a dual degree with a B.S. in Physics and Applied Mathematics and Statistics at SBU. As a frequent user of PayPal for online shopping, I am continuously impressed by its dominance of e-commerce. I hope to contribute to its legacy of delivering a secure, convenient platform for customers to purchase goods and send money. My technical skills and experience make me an ideal candidate for this position.

During my research internship at the U.S. Naval Research Laboratory in summer 2021, I gained significant experience with information retrieval, data structures, and algorithms. I also developed strong EQ skills while working on an interdisciplinary team of scientists and engineers to reconstruct a plasma plume from spectroscopic observational data. I have several experiences where I used my technical skills on projects, for instance, I tested the tomography algorithm on a 1-dimensional array of simulated data with artificial noise and found it sufficiently accurate for my project. I used Xarray to extract over 2,000 points of observational plasma data from an HDF5 file into a 2-dimensional DataArray structure. Further, I applied the inverse Abel transform to the plasma data, changing the 2-dimensional data to a 3-dimensional set of reconstructed emission values. As a result, I determined a model for the Abel-inverted plasma shape by adjusting parameters through the SciPy optimization method until achieving an optimal fit. I presented my results in a detailed yet concisely comprehendable manner using Google Docs so that my supervisor could track my progress and share my findings with potential future interns.

Through my Summer 2020 research internship at the Stony Brook University Department of Physics and Astronomy department, I gained significant experience in Python and Jupyter Notebooks. I demonstrated my experience, familiarity, and ease with handling large data sets and crunching numbers. I analyzed a peer-reviewed research paper observing 1,000 supernovas and extracted distance modulus and redshift values from the authors’ data set. I communicated the project findings using presentation software to fellow undergraduates and industry professionals at a conference.

I look forward to getting involved with PayPal’s functional teams and vibrant culture of innovation and collaboration. Thank you for your time and consideration in reviewing my application. I am readily available for the opportunity to interview with you at your earliest convenience.

Sincerely,

Wolfie Seawolf

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