Brian J. Wiley

107 W. Monument St. Unit GC

Baltimore, MD 21202

February 23, 2020

Ms. Gina Psallidas

Human Resources

United Therapeutics Corp.

1040 Spring St.

Silver Spring, MD 20910

Dear Ms. Psallidas,

I am pleased to submit my application for the **Intern - Computational Lab** position in Silver Springs, MD posted on Internships.com. Currently in my second semester as a Master of Science student in Bioinformatics at Johns Hopkins University, my interests focus on computational genetics and epigenetic regulation in cancer research, specifically hematological cancers and rare disease in children. As such, I am passionate about learning from genetic analysis and regulatory components of genetic disease. My goal is to work in the field of pharmaceutical engineering implementing high powered algorithms to develop small molecule inhibitors for proteins and gene targets in rare disease and childhood hematological cancers. I really want to work for your company so I can obtain hands on knowledge and training in the models that go into supporting drug development. I am excited that United Therapeutics is making major break thoughs in immunotherapy treatment for neuroblastomas with dinutuximab. This a great field to be in where Johns Hopkins also treating cancer with immunotherapy.

Although my previous background was in Finance, I became interested in Bioinformatics during my work at SAP. As such, I prepared for graduate work in Bioinformatics by taking extensive coursework in Math, Statistics, Biology and Biotechnology, and Computer Science. My current experience includes a Biotechnology wet lab in manipulating DNA in E. coli, Organic Chemistry, Biochemistry and Molecular Biology. I have experience in data visualization from my previous work as an analyst for a solar company, as well as 3 years’ experience with R, Python, Java, and databases such as MySQL, Oracle BI, and SAP Data Warehouse platforms. My recent years in school exposed me to Java and Python in most of my computer science and bioinformatics algorithms courses. The GitHub link below shows my experience in Java, Python, R and Shell Scripting. I also have experience with Linux Ubuntu systems and Markdown which I use for my machine learning assignments. In conjunction with my formal education, I am also a self-learner who looks into various ways to increase my aptitude for Bioconductor in R, Python coding in Machine Learning and Data Science libraries. My coding background in Python, R and Java will contribute to my success in this internship role, along with my ability to work across multiple teams in Organic Chemistry, Biochemistry, Molecular Biology and Epigenetics.

In closing, I am a self-taught programmer who created scripts for most of my classes, and my interests extend far beyond the scope of the classroom. I am currently studying Bioconductor in R for NGS data analysis. I have statistics background for analyzing datasets and data visualization in R and Python, along with wet lab experience with bacteria and equipment used to manipulate DNA. I have a passion for learning and helping people through science and medicine. I look forward to an opportunity to further discuss my experience and background as it related to your needs for the Intern - Computational Lab position at United Therapeutics Corp. Thanks for the opportunity to apply for this position.

Sincerely,

Brian J. Wiley

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<https://github.com/BJWiley233>(See “Practical-Computer-Concepts-Files” and “Biotechnology- Notebook” repositories for coding and wet lab experience respectively)