Manas Vishal

(774) 503-5824 | vishalmanas28@gmail.com | https://github.com/manasvishal

May 05, 2024
Optical Data Analyst
ASML US

Dear hiring manager

I am writing to express my interest in the Optical Data Analyst position at ASML US, specifically within the Advanced Development Center (ADC). With a strong background in image processing, data analysis, and machine learning, coupled with extensive experience in computational sciences and engineering, I am excited about the opportunity to contribute my skills and expertise to your esteemed organization.

My academic journey, highlighted by a Ph.D. in Computational Sciences and Engineering with a focus on Theoretical Physics from the University of Massachusetts Dartmouth, has equipped me with a robust foundation in mathematics, statistics, and computational techniques. Through my research endeavors at the Center for Scientific Computing and Data Science Research, I have honed my abilities to formulate complex mathematical models and develop efficient algorithms for numerical simulations, achieving significant advancements in the simulation of astrophysical binaries.

As a Python Programmer and Data Analyst in my previous project, I led a team in analyzing credit card fraud data, leveraging my expertise in Python, R, and machine learning algorithms to develop predictive models with exceptional accuracy. My experience at the Albert Einstein Institute, Max Planck Institute of Gravitational Physics, and NSF Careers further enhanced my proficiency in high-performance computing and data-driven approaches, contributing to accelerated simulation times and improved efficiency in data processing.

I am particularly drawn to ASML's commitment to innovation and its mission to develop lithography machines that drive advancements in microchip production. The opportunity to work alongside a team of talented engineers and scientists focused on developing cutting-edge technologies aligns perfectly with my career aspirations and research interests.

Moreover, my leadership experience, demonstrated through organizing hackathons and leading multimedia teams for science festivals, reflects my passion for fostering innovation and collaboration within diverse communities. I am eager to bring my unique perspective, technical skills, and leadership abilities to the Optical Data Analyst role and contribute to the continued success of ASML's Advanced Development Center.

Thank you for considering my application. I am looking forward to the opportunity to discuss how my background and experiences align with the needs of your team.

Sincerely,

Manas Vishal