

Andrew (Seongbae) Kim

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Dear Hiring Manager,

I graduate from the University of Texas at Austin and received a Bachelor of Science in Mathematics with a minor Computer Science. While attending UT Austin, I was able to complete courses in Computer Science including Computer Architecture, Data Structure and Algorithm, Computer Graphics, Software Engineering, and Neural Network, as well as coursework in Mathematics including Probability, Applied Statistics, and Stochastic Process. I was also able to complete undergraduate research courses in machine learning. After reviewing your position, I believe I am a good fit and would love an opportunity to work with you and your team.

Since I started college at UT Austin, I participated in the Undergraduate Research program where I served as an Undergraduate Research Assistant. In this role, I was able to create a Machine Learning application related to 3D Chemistry atom calculator to find the potential energy surfaces in molecular system of atoms. I worked on the project using Python and its API such as Scikit-Learn, Scipy, Numpy, Matplotlib, Neural Network, and its Chemical simulation software in the Linux cluster server of research. After extensive research, I was able to conclude that the machine learning atom calculator could predict potential energy surfaces more efficiently and accurately.

Since October 2021, I have joined Amazon Robotics, LLC and work as a Support Engineer to assist Software Development Engineers and Data Scientists' work. Up to now, I have gained industrial experience with respect to how industrial robots work in the real world and expected how industrial robots would be developed in the future. Especially, through the valuable experience, I raised my skills how to communicate with people at my work and implemented my goals for the sake of improving distribution management and robotic workcells' performance. Nonetheless, I want to work more software-intensive working as a Software Engineer for Robotics. To accelerate my software development experience, I have worked on an individual project for autonomous vehicle and computer vision since Spring 2021. I made basic Kalman filters, traffic light detection, route planner with A* algorithm, and finding car lanes uploaded in Github.

I have attached my resume which includes more information on the variety of experiences I have gained so far. I sincerely appreciate your time in reading my resume and cover letter. Please feel free to reach out to me by phone or email to schedule a time to talk. I am looking forward to hearing from you and your team.

Sincerely,

Andrew (Seongbae) Kim