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Intel Corporation
3065 Bowers Ave.
Santa Clara, CA 95052

Dear Hiring Manager:

I am excited to apply for the Data Scientist position at Intel. Knowing that Intel has been conducting cutting-edge research in machine learning, I am fascinated by the opportunities created by the huge applications in smart home, IoT and wearable devices. This Data Scientist role will allow me to gain key professional development and apply my specialty. As a researcher at UCLA Wireless Health Institute (WHI), I worked with various types of sensor data and applied machine learning to provide solutions for human motion tracking. I developed strong programming skills and gained hands-on experience with machine learning libraries such as Tensorflow, scikit-learn and Pandas. My research experience at WHI has given me insight on analyzing real-world sensor data and solving machine learning problems in computer vision, motion tracking and localization. I am confident that I could bring valuable skills and experience to Intel that would make me an ideal fit for this position.

At WHI, I collaborated with a group of physicians and engineers, and provided solutions to monitor patients' rehab progress remotely. In a joint project with the UCLA Rehab Center, I prototyped a rehab toolkit which combines machine learning with computer vision and inertial motion tracking. This rehab toolkit can recognize motion patterns and allows patients to preform prescribed rehab activities at home. I also implemented a context-enhanced human activity classification system. The system collects motion data from wearable sensors and context data from mobile phones, and provides real-time classification feedback. These projects require not only technical skills, but also the ability to explain and present data to professionals in different fields.

I also have hands-on experience in deep learning frameworks. Recently, I built an end-to-end system to recognize house numbers in the Street View House Number dataset using ConvNets and Deep Learning approaches. I implemented an 8-layers ConvNet using Tensorflow in Python. I visualized models using TensorBoard and provided a thorough discussion of design choices such as architecture, regularization and hyperparameters. These projects provided me a solid background in machine learning and data analyzes.

I am eager for this Data Scientist position and am grateful for the opportunity to work for Intel. I am positive that my machine learning skills combined with my experience in analyzing sensor data will allow me to successfully promote Intel's goal. I hope to be able to talk with you soon to discuss my qualifications. Thank you for taking the time to consider my application, and I look forward to hearing from you.

Best regards,
(Signature)

Derrick Chang