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Intel   February 15, 2020
Software Engineer (JR0122778)

Dear Intel Recruiting Team,

I am applying for Software Engineer position posted on the Intel website. I also had conversation with recruiters at University of Illinois at Urbana Champaign (UIUC) career event, but I want to emphasize more about myself as writing this letter. I have strong passion to this position and I am confident that I can bring meaningful contribution on Intel.

First of all, I have hands-on experience of optimization that requires analytical insight to diagnose problems, implement solutions, and evaluate results. As a research assistant of a Cyber Physical Computing group at UIUC, I analyzed a problem about bandwidth limitation in specific situation of data overload such as natural disaster, I built an algorithm to optimize data collection that minimizes communication needs to better handle bandwidth by considering source redundancy in the constrained network. To evaluate this, I set up and analyzed data from Raspberry Pis simulations to prove that the algorithms and setup are valid. I managed to publish and present a paper about this work at the conference, IEEE Milcom 2019. Through this experience, I deeply understand that this work requires **detail-oriented mind, self-motivation, and tolerance of ambiguity**. I am confident that I can bring them to Intel.

Second, I have a working knowledge of web technologies. As I have worked as web development intern, I acquired strong foundation in JavaScript/TypeScript and frameworks such as React and Angular, by building modern web applications with responsiveness to meet company's business needs. I was exposed to learn other web technologies including but not limited to HTML, CSS, MySql, MongoDB, Node, and Git.

Third, I have a experience in middleware technologies. In my research work, I proposed a new decision-driven summarization layer based on the sampling technique that understands mission needs and reduces the data volume accordingly. This thin layer between applications and network protocols functions as a **middleware** that minimizes the network resource consumption while meeting the application needs.

Through these experiences, I become a proactive person who can initiate to solve the problems with minimal sight. This Software Engineer position is the type of opportunity that I have been passionately looking for. If I could get a chance, it would be an invaluable experience in my life and I would also bring the best diligence and responsibility.

Please let me know if I can provide further information. I would get back to you as soon as possible. Thank you very much for your time and interest. I look forward to hearing from you.

Sincerely,

Suk Min Hwang