

# Fu Chen

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Ms. Barbara Browne  
Staples, Inc.  
500 Staples Drive  
Framingham, MA 01702

Dear Ms. Browne:

As a sophomore at the Chinese University of Hong Kong, Shenzhen, I am enthusiastic about applying my technical proficiency and collaborative skills to the role of Data Science Intern at Staples, which I learned from the MIT career advising website. Having researched Staples extensively through its official website, I am impressed by its expertise in data analytics and data mining in the field of office furnishings. With my academic background in Computer Science and Engineering with a focus on artificial intelligence, I am confident that my skill set aligns seamlessly with the requirements of this internship.

My proficiency in programming has been sharpened through my coursework and personal projects, such as the independent development of a machine learning framework, which consists of around 1,000 lines of code, for a handwritten digit recognition scenario. Meanwhile, My high demands on myself have led me to broaden my mathematical background involving probabilities and advanced linear algebra, which complements my technical skills and enables me to perform high-level data analysis and modeling. These technical abilities are crucial for the data-driven solutions that Staples seeks in enhancing business productivity and customer satisfaction.

In addition, a key project that exemplifies my strength to collaborate effectively in a team-oriented environment is the Arknights Simulator Database System, where I worked as the group leader in designing and implementing more than 200 complex database queries via MySQL. This project not only implies my professional abilities but also strengthened my capability to work cross-functionally within a team to achieve project goals.

Throughout my academic career, I have developed a solid data science foundation and cultivated beneficial professional qualities that are directly applicable to the responsibilities outlined in your internship description. Under the supervision of Prof. Tianwei Yu, I spent about one year to carefully adopt these data-handling skills to optimize a data processing algorithm by over 60% gradually. I believe my rigor, patience, as well as the research ability reflected in the experience, are valuable in fostering product innovations in Staples.

As a student who will work in the field of data science, I am particularly attracted by this opportunity at Staples not only because it offers a platform to apply my knowledge to enhance daily life experiences, but also for the promising professional growth through internship experiences which furthers my career trajectory in this dynamic field.

Thank you for reviewing my application. Should you have any question, please reach me through the contact information listed above. I am available at your earliest convenience for an interview, and am eager to contribute to and grow with Staples.

Best regards,

Fu Chen