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HBS Systems Inc
3400 Waterview Pkwy #200,
Richardson, TX 75080

Dear HBS Systems HR department,

I am writing to apply to the junior programmer position at Richardson. I'm a recent graduate from Purdue University's graduate program in Mathematics looking for a position in software engineering. I have superb mathematical abilities as well as ample experience programming—primarily in Matlab and C, although I would consider myself more proficient in Python. I have working knowledge of numerical analysis, numerical linear algebra, numerical PDEs, as well as theoretical probability, data science, machine learning, and deep learning.

As part of my various teaching assignments at Purdue, I have used MS Excel (more precisely its open source cousin LibreOffice's Calc) extensively for calculating grade averages and standard deviations as well as heuristically determining cut-off ranges for letter grades.

Since I have been recently heavily leaning towards data science I have good experience with wrangling data in PostgreSQL. I am familiar with making queries, filtering, arranging, injecting data, making subqueries, and the various types of joins. The bulk of this knowledge comes from a recent IMA (Institute for Mathematics and its Applications) funded data science bootcamp I completed.

I have complete trust in my ability to meet your demands. I look forward to speaking with you to discuss my qualifications. Please do not hesitate to contact me.

Sincerely,
Carlos Salinas