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To whom it may concern,

Thank you for taking the time to read this letter. My name is Parker Brademann - I am a software engineer with emphases in web development, data analytics, and graphic design, and I am writing this letter to provide you more information about my interests, skills, and passions as a software engineer.

First, to provide some background about myself - I am currently a senior at the University of Georgia, with an expected graduation in the summer of 2025. I am a full stack engineer and consider myself most knowledgeable in web development, followed by machine learning, then backend work and systems programming. Relevant languages include the MERN stack for web programming, vanilla JavaScript, Java, Python, Matlab, and C. With these languages I have created several applications that fully encapsulate the software development process and that serve a material purpose - I have made a Java application that converts any numerical input from any counting system, and converts it to any other counting system; a Python implementation of an Optical Character Recognition (OCR) system that utilizes machine learning and neural networks to read inputs of images, with roughly 88% accuracy on the MNIST dataset; a pet blog made as a collaborative effort for a UGA class project, where students can submit pet photos and comment on them; and **DataGeeks Sports Blog**, which is my personal blog I run as a space to share interesting developments in the sports world, alongside accompanying visualizations.

I originally did not apply to UGA with the intent of being a computer science major; I had applied and planned to major in biology, as my career goal at the time was to become an orthodontist. However, I had always held an interest in computers, and I saw the emergence of generative AI as a new golden age of innovation for the computer science world. I felt the need to be “in” on that wave and to help shape the world of computer science, but having never programmed before arriving at college, I found it very difficult to adapt and to grasp new concepts. On the verge of flaming out, I turned to sports as a way to teach myself - I would pull datasets off the Internet and do small exercises with them like finding the center of the mass of points via gradient descent, then I would practice other concepts like inheritance in the same way. Over time, relating computer science concepts to the real world was how I taught myself to program, and it’s helped me get to where I am today. I hope this letter has been informative on my career path and perspective, and thank you for your time.

Parker Brademann