

Jacob William Crouch

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To whom it may concern,

I am currently a senior computer science major at the University of Michigan who will graduate with a bachelor's degree in May 2019 with an expected GPA above 3.32. I am excited to begin my career and bring a task-oriented, hardworking mindset to everything I do.

The classes I have taken so far have equipped me with a good foundation in computer science that I believe makes me a qualified applicant. From taking the University of Michigan CS program, I now have a great amount of experience with Object-Oriented programming, algorithms and data structures, testing, design, theory, and web app development. My biggest project has been the current development of an entire search engine in c/c++ that runs on linux. The project class is taught by one of the members of Microsoft's original search engine team. This project involves me and a team of four other students building our own libraries to implement a design of a search engine. My job in the team was to develop the query compiler which I did using a simple top-down recursive method. I also implemented an ad-hoc html parser that can isolate title, links, anchor text, and body text. This was conceptually challenging because of all the different valid HTML syntaxes out there, and my professor said that no one was able to extract anchor text the previous semester. Another project I am proud of is the creation of a mock Instagram web app. I implemented the backend with python and a sqlite database using a REST API to connect to a dynamic front end written in react/js. I also included sessions, timestamps and infinite scrolling. I apply a disciplined attitude to everything I do, exemplified by achieving a limited proficiency in Spanish, playing the violin, and weight training from which I have developed a "get it done" mentality. I have valuable teamwork experience in and out of the classroom, such as before mentioned coding group projects and membership on a back-to-back state championship soccer team. If given the opportunity, I believe I will succeed in this role.

Thank you for your time and consideration, and if you have any questions please feel free to contact me. I look forward to hearing from you soon.

Sincerely,

Jacob Crouch