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To whom it may concern,

I am writing to apply for the position of "Software Engineer" which is advertised on the Cuberider web site. As a Software Engineer that has worked on numerous side projects (some commercial) over the past 9 years I consider myself to be self-motivated and ambitious. At my current position I was actively engaged in the SDLC from design to maintenance for multiple products.

With regard to my ability to meet the requirements of this position:

- **BSc degree or equivalent practical experience** - I graduated with distinction at the University of Wollongong in 2014 with a Bachelor of Computer Science, Software Engineering major.
- **Great skills in writing clean, efficient code** - Clean code is written by people who thoroughly understand a problem and the intended solution. I strive to understand and define a problem before writing any code for the solution. Some of my projects have been developed with mobile devices in mind which have required me to design efficient architectures that lend themselves well to the intended use of the hardware platform.
- **Skills with hardware\embedded code environments** - I have worked on mobile devices that are resource constrained have limited debugging capability. I have also worked with hardware such as VR headsets, graphics cards and hand skeletal tracking devices (for a sensor fusion project).
- **Experience programming in C, C++, C#, Java** - All of my professional and side projects have been in C, C++, C# and Java. I have also worked in other languages such as FORTRAN, Lisp, HTML, and Javascript.
- **Data structures** - it is my belief that data structures are just as important, if not more important than algorithms. When the correct structure is applied to data, algorithms can be very easily deduced. This belief sits very close to the core of my engineering technique.
- **Familiarity with application of common design patterns** - I am familiar with applying standard design patterns, but I don't rely on them as one-size-fits-all solutions to problems. I analyse the current problem and determine which pattern (if any) would produce clean and maintainable code, possibly with a performance tradeoff.
- **Passion for software engineering** - The majority of my side projects involve software (a sample of which are shown in my resume). My passion drives me to create software "correctly", but I also recognise that commercial constraints sometimes call for other solutions).

In my downtime I also participate in other activities such as astronomy, photography and motorsport.

I do believe that given a chance I would be able to positively contribute to Cuberider. I would appreciate the opportunity to meet with you to discuss my application at an interview. Attached is a copy of my resume for your consideration. I can be contacted at all times using the details provided above.

Sincerely,

Lucas Zadrozny