HR Manager   April 20, 2016
DoubleJump
Victoria B.C.

Dear Sir or Madam,

I would like to submit my application for the Game Server / Network Engineer position advertised on the *Viatec* job board.

I have steered my education in the path of gaining the most applicable skills possible precisely for a position such as this. I have always been amazed by the capacity of gaming networks to not only handle such a multitude of requests and data but to do so in such a streamlined manner that the user never notices. Using *java* I developed a distributed system modeling an on-line stock exchange system. The project was focused on scalability; the end result was a an efficient, reliable system capable of processing upwards of thirty-thousand transactions per second. I am very familiar with most Internet protocols; using Kali Linux I have performed penetration testing and network defense on websites, servers and mobile devices. Using the .NET framework, C#, Javascript and HTML I developed a website which hosts an on-line suite of tools for hardware developers to analyze security risks in their integrated circuits. The website uses the *Entity* framework to communicate with a remote database to store user, application and statistical data. This website is currently hosted on the *Azure Cloud System*. I am also very proficient with C++. I used it to build a 'proof-of-concept' software implementation of a new homomorphic encryption scheme I helped develop with my research group. I have also used C++ in combination with OpenGL to develop animations to simulate real-world physical systems. I have also designed multiple integrated circuits using VHDL. I am also very familiar with tools such as *Git*, LATEX, performance profilers, and integrated development environments such as visual studio and eclipse.

I received my bachelor's in engineering, majoring in computer engineering in April of 2015. The development of exceptional software, requires more than just the knowledge of what your code can accomplish. To truly excel a developer must understand what is happening 'under the hood' of their machine. I selected the computer engineering major because I wanted to not only gain the skills of a professional software engineer but to use my understanding of the hardware to stand out as a team member.

I am a skilled, hard-working developer with experience and knowledge I feel that I can bring to aid *DoubleJump* in providing premium service and satisfaction to its customers. I learned the value of a team dynamic while working as a lifeguard and aquatic supervisor during my undergrad. I believe that this experience, my skill set and my reliability would make me a valuable asset to the *DoubleJump* team.

Yours faithfully,

Nick Houghton

Attached: curriculum vitæ

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