

Michael Withington

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Dear Recruitment Management,

My name is Michael Withington, and I am a senior at Wentworth Institute of Technology. I am currently studying computer science, and will be graduating this August. Over the past 3 years at school I have gained a wealth of experience with both Java and C++. Working with these two languages, I have begun to witness how most programs function and can imagine how the code was written. Following this knowledge, I've begun to expand my programming horizons now with some hybrid languages like Scala and Haskell. Wentworth's rigorous curriculum has taught me to be ready for anything and always plan our projects so that you have enough time to complete them correctly. While on break both my freshman and sophomore years at Wentworth, I was able to secure myself a position at two amazing companies. My first internship was at Hydroid, an autonomous submarine company. When I worked there I was privileged to spend most of my time engineering their new buildings entire network infrastructure. Throughout the summer, I learned how to code and light up several servers and a Cisco 49-11 core switch with firewalls and wireless access points. As I worked on this, I found that being as accurate as possible from step one will be a huge contributor to the project's overall success. When I wasn't working on that project, I was put in charge of the company's internet security server which I was tasked to populate and administrate. Working at Hydroid taught me some very valuable lessons that are crucial to my work ethic today. My second internship at PrismHr had me on a different end of the computer spectrum, now I was working with most cloud based networks and developing production code. My experiences at PrismHR taught me that development usually requires a ton of communication and collaboration to get exactly what the customer wants and expects. Learning that keeping everything exactly uniform and perfectly in sync was a huge part of the job, if one small mistake is pushed into an update then it could cause major internal problems and possibly even the loss of customers. I also came to discover that not only is communication very important inside a group, but also the communication between all sectors of the company is essential. At my third Co-Op at a company called Bamboo Rose Software. While working here I honed my web development skills. Not only did I develop a reporting application for the CEO but I was able to design the UI in Angularjs and Bootstrap that was fully responsive, I integrated a java backend with API calls using spring MVC and JDBC Oracle drivers. Also, I was the holder of an amazon web server running a headless red hat that I deployed the war file onto. The server was using Tomcat 8 and Java 1.8, I now have some great knowledge on how the full developmental process goes and I believe that it would make me a great fit at your company! My fourth co-op was spent working for a company called plum voice. Here, I was given the opportunity to run free with a few projects and learn some interesting practices. I was able to create an application for a unified login system to help condense their internal tools. During my time here I developed a web application for logging the activity with the front door. I hooked up a RFID scanner to a Raspi and read through a serial port. This identification number was sent to a database and authenticated there. If the ID # was in the database a power relay sent a signal and unlocked the magnetic strip on the door. The web interface and logging system I built used Angularjs and HTML5, with a PHP backend. Also integrated into the door was an asterisk config which allowed you to call into a number and unlock it remotely. The authentication was the same for both methods. At this company I learned a massive amount, about self-management and task discipline I had little guidance with the projects and needed to rapidly prioritize myself in order to achieve goals at appropriate times. During the weekends and my off time it was dedicated to the open waters. Being an Aquaculture farmer is no cakewalk this is truly the inspiration of my hard work ethic. We need to be ready and at the docks two hours before the tides to ensure maximum harvest. Being in charge of several million living creatures seems to really instill the effort for perfection more than anything else. From when an oyster is just under a millimeter in width to their full marketable size it is a grueling process where one mistake can cost you thousands of dollars. Accuracy is a number one priority so that customers not only stay happy but also eager to get their hands on more oysters. Keeping a pristine work environment and a smooth workflow is a necessity that I have acquired since working as a farmer. Thank you so much for your time and reading my application. I know that my hard work ethic, attention to detail and, my collaboration and communication skills are a great fit for your company.

Sincerely,

Michael Withington