

Sheldon Benard
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To whom it may concern:

Currently, I am a Bachelor of Science student in the Faculty of Science at McGill University, pursuing a Joint Major in Computer Science and Mathematics, with a Minor in Statistics. I am deeply passionate to discover inventive computer science solutions to intricate and modern problems, to provide support for technological infrastructures, and to question and push the technological horizon. With my keen eye for detail, collaboration abilities, and developing technical skills, I am eager to contribute to the success of your company.

As a Software Developer Intern at General Electric Digital, I was involved with 2 projects/solutions: Enterprise Plant Insights (EPI) and Production Manager (PM). For EPI, I formulated test scenarios to define what features were being tested and to outline the real-world use-cases for the application. Further, I designed test cases using Cucumber and automated the tests using the Protractor test framework and Javascript. I also explored the idea of implementing Model-Based Testing (using Graphwalker) – which would automatically generate software test cases by walking through models of the application. While working on an EPI feature release, I received the Above and Beyond award, for the overtime I put in to ensure a smooth and complete release. For PM, with the page-object model design in mind, I created a new testing infrastructure using leanFT and C#, to test new Production Manager features, and I maintained existing Production Manager tests written using Unified Functional Testing (UFT) and VBScript. Moreover, as an intern, I learned the Scrum agile framework, and I conducted the daily Scrum meetings for the EPI and PM teams. Throughout my time at GE, I gained a deeper understanding of the feature release cycle and an appreciation for quality assurance.

From May 2016 to August 2016, I was a programmer intern at the Aquachronica Group – Research and Development. Over the course of the summer, I worked independently on a stock analysis software system. Utilizing SeleniumHQ WebDriver and IDE, in conjunction with the headless PhantomJS browser, the yahooFinance and World Bank APIs, Java, and Python, I gathered 6 years of stock pricing information, daily volume levels, market capitalization, and the industry of over 7000 stocks from the Toronto Stock Exchange, TSX.V, American Stock Exchange, and the New York Stock Exchange. With this information, I learned about and implemented a deep Artificial Neural Network using C# in Visual Studio. The Artificial Neural Network's input nodes consisted of normalized stock prices (for the 7000+ stocks) and normalized indices and global economic indicators (gathered using the yahooFinance API and the World Bank API). The Neural Network's output was a prediction of the stock price, to see if there was any merit in using Artificial Neural Networks for predictive purposes. Throughout the summer, I discovered and explored new technologies (C#, SeleniumHQ, Artificial Neural Networks, and web APIs), developed my technical skills (Java, Python), and learned better coding practices (parameterization of all variables) and providing documentation. I am eager to apply this knowledge to new and exciting future ventures.

I thank you for taking the time to consider my candidacy, and I look forward to discussing my qualifications with you and how I can contribute within your organization.

Sincerely,



Sheldon Benard