Andrew D'Agostino

Software Engineering Skills

Programming Languages
- Utilized JavaScript in a Node.js and browser environment alongside several libraries, such as Leaflet.js, Express.js, JQuery, and the Jasmine test framework
- Used Java for the Object Oriented Programming course and to develop Spring microservices
- Worked with C in a Linux environment to complete projects for the Introduction to Programming, Intermediate Programming, and Data Structures courses
- Created graphs using R in the Software Design II and Baseball Analytics courses

Tools and Processes
- Employed JIRA, Slack, Trello, and Microsoft Teams to communicate and coordinate with teams as part of co-op work terms and academic group projects
- Applied the Agile/Scrum processes through daily stand-up meetings, sprint reviews, sprint retrospectives, and backlog refinement sessions during the co-op placement at CaseWare
- Created weekly timesheets and gave daily updates on status of projects during the Transport Genie co-op
- Proficient in the use of Windows 7, 8, and 10 with experience using macOS and Linux

Academic Highlights

Ontario Sunshine List Project (Systems Analysis and Design in Applications) *Winter 2019*
University of Guelph, Guelph, ON
- Goal of the project was to develop a web application while going through stages of the Waterfall development cycle, including requirements gathering, design, prototyping, and implementation
- Primary role was to develop the JavaScript backend using Express.js to retrieve data from the MySQL database to the React frontend
- Documented server API and assisted team members in connecting the frontend to the backend

Crime Statistic Project (Software Design II) *Winter 2017*
University of Guelph, Guelph, ON
- Overall project purpose involved reading in Statistics Canada crime data from a file, prompting the user to choose information to be displayed, and outputting the information as a graph
- Programmed a function in Perl using R to create a graph based on the selected crime data
- Coordinated with the team members responsible for user and data input to ensure the input for the graphing function was read in and passed along in the correct format

Education and Certifications

Bachelor of Computing, Software Engineering (Co-op) *2016 – Present*
University of Guelph, Guelph, ON
- Expected to graduate in 2021
- Maintained a high academic average and was on the College of Physical and Engineering Science Dean's Honours List for all academic semesters between Fall 2016 and Fall 2019
- Successfully completed 16.5 credits at the University level, including Software Design I-III, Software Systems Development and Integration, and Linear Algebra I and II
- Received a University of Guelph Entrance Scholarship for an admission average above 90%

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Education and Certifications (continued)

Ontario Secondary School Diploma   *2012 – 2016*
Westmount Secondary School, Hamilton, ON
- Earned an Ontario Secondary School Diploma, with Honours
- Received an Ontario Scholar Award for achieving a Grade 12 average of 92%

Employment Experience

Junior Software Developer   *January 2020 – August 2020*
Transport Genie Ltd., Guelph, ON
- Iteratively built website UI based on sketch design document using Bootstrap and JQuery
- Actively participated in weekly meetings with client to design, plan, and review website features
- Designed tables for the PostgreSQL database and developed the APIs to interact between the UI and database using the Python Pyramid web framework

Junior Software Developer   *May 2019 – September 2019*
Transport Genie Ltd., Guelph, ON
- Implemented website user interface using JavaScript and HTML, including libraries like Bootstrap, JQuery, and DataTables
- Worked with clients to test and refine new features/changes to be added to the website
- Created endpoints to retrieve and send data from a MySQL database using the Python Pyramid web framework

Software Developer (Co-op)   *May 2018 – December 2018*
CaseWare International, Toronto, ON
- Provided support to developers using CaseWare's APIs and enabled them to successfully develop products for the CaseWare platform
- Combined APIs and services from CaseWare, along with external APIs, to develop a JavaScript gadget as sample code for future developers to reference when creating their own gadgets
- Worked as a member of an Agile team, participated in Scrum ceremonies, and attended further sessions to learn more about Agile practices and discuss the company's approach to Agile

Awards

Dr. Ted Swart Scholarship   *2018*
- Awarded by the University of Guelph's School of Computer Science for achieving the highest average in Year 2 core courses in the Software Engineering major

Dr. Mary McLeish Scholarship   *2017*
- Awarded by the University of Guelph's School of Computer Science for achieving the highest average in Year 1 core courses in the Software Engineering major

Chief Scout's Award   *2012*
- Received this award from the Governor-General of Canada, in his official capacity as Chief Scout of Canada, for proficiency in citizenship, leadership, personal development, and outdoor skills

References Available Upon Request