MELANIE LEVY-HARA

2A Systems Design Engineering

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SUMMARY OF QUALIFICATIONS

- Skilled in C++, HTML, CSS, Javascript, jQuery, Angular JS, ASP.NET, Photoshop, Solidworks
- Experienced in PL/SQL, relational databases (Oracle, Postgres) and creating ETL scripts
- Knowledgeable in VBA (Excel) and information analysis, gained as a traffic analyst at MTO
- Proficient in problem solving, attained through several programming projects at work and school
- Excellent communication and interpersonal skills, shown as writing editor of youth magazine
- Excels in a demanding team environment, acquired as the regional president of youth group

EMPLOYMENT HISTORY

Audatex (a Solera Company)   Sep 2014 – Dec 2014
Software Engineer, Evaluation: Outstanding
- Created ETL (Extract, Transform, Load) scripts to parse 100,000 data elements from XML files into an Oracle database using Pentaho Data Integration
- Maintained, documented, and improved the performance of ETL scripts by 50% runtime
- Collaborated with QA team members and other developers to ensure consistency in ETL scripts
- Self-learned Oracle SQL and Postgres SQL to understand the company's data framework
- Redesigned and reviewed the HTML, CSS and Javascript for the company's AudaConnect website (audaconnect.audatex.ca) to make it responsive
- Participated in a Scrum team as a member and used JIRA website for tracking deliverables
- Presented my accomplishments to the Senior Management Team and gave recommendations

Ministry of Transportation of Ontario (MTO), Traffic Office   Jan 2014 – May 2014
Traffic Information Analyst, Evaluation: Outstanding
- Used Microsoft Excel and macros (VBA) to create a program that matched similar data from two databases – final version of program matched 70% of data, 20% above goal
- Documented all work and wrote an instruction manual for employees to run program effectively
- Presented project and results to 3 different teams within the Traffic Office in formal meetings
- Compared different sources of error of traffic counts by video and developed statistical analyses (T-tests and F-tests) in order to validate the data
- Scheduled road operations and communicated with area managers and contractors, demonstrating strong interpersonal, communication and organizational skills

York University, Department of Geomatics Engineering   Jul 2013 – Aug 2013
Member of Geomatics Research Team
- Instructed the head professor on Quantum GIS (QGIS) usability and functionality
- Wrote technical reports to document functions of QGIS and relevant projects, demonstrating exceptional communication skills
- Managed different projects simultaneously, exhibiting adequate time management skills

LEADERSHIP POSITIONS

B'nai Brith Youth Organization   May 2010 – May 2013

Regional President
- Attended leadership conferences in Canada and the US, debating and voting on issues of the international order as representative of a region of 150 teens
- Oversaw all regional executive activity, offering support to youth leaders and participants
- Organized creative and unique leadership training sessions for over 35 executive members
- Inspired younger members to take on leadership roles, showing excellent interpersonal skills

Avenida Youth Magazine   **Jul 2012 - Jul 2013**
Writing Editor
- Edited and translated articles monthly in English and Spanish, paying close attention to detail
- Met with Editorial Team to improve publishing process, showing teamwork skills
- Published articles on common issues such as teen depression and internet piracy

SIDE PROJECTS

Personal Website
- Used HTML, CSS, Javascript and Angular JS to build my own website
- Website can be found at http://levyharahacks.me

Sports Database
- Self-learned ASP.Net MVC Framework to create front-end and back-end of website
- Connected project to Oracle database and added create, read, update, delete functions on website

YHack Project: Persona
- Used the MEAN Stack (Mongo DB, Express, Angular JS and Node.js) to create a web app
- Developed a lifestyle app that documented a person's overall wellbeing
- Source code can be found at www.github.com/MelanieLevy-Hara/Vita_YHack

AWARDS AND ACHIEVEMENTS

Professional Engineers of Ontario York Chapter   **Aug 2013**
PEO Scholarship
This scholarship was obtained based on the passion demonstrated for the engineering profession and for involvement in extracurricular activities. It was awarded to eight students in all of York Region

York University   **Jun 2013**
Spark Award
This award is based on academic excellence, interest in research, and science involvement in high school, and is offered to three students in all of Ontario entering their first year of university. It gives students the chance to have research experience at York University during the summer before entering university

Langstaff Secondary School Graduation   **Jun 2013**
Lieutenant Governor's Community Volunteer Award
This recognition was received for having over 300 hours of community service hours within a variety of volunteer projects. It was awarded to one person from a graduating class of 400 students