Danish Khan

McMaster Software Engineering Co-op Student
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PROFILE & HIGHLIGHTS OF QUALIFICATIONS

- Experienced in C/C++, Java, Python, HTML, CSS, JavaScript, and SQL server
- Familiar with Mac OS, Linux, and Windows
- Analytical, good at debugging and problem-solving
- Motivated self-started and aptitude to learn and apply knowledge quickly
- Solid reputation as a competent team member with good interpersonal skills

EDUCATION

McMaster University: B.Eng. Software Engineering Co-op
Entering Level III. CGPA 7.42 - Returning in Fall 2016. Graduating 2019.

PROJECTS & EXPERIENCE

NSERC Grant Dataset Data Mining Web Application **April.2016-Present**
Web application that forecasts the financial size of a field of research five years into the future based on the NSERC grant awards datasets that span from 1991 to 2014. Additionally, the app makes more accessible the metrics available in these datasets and provides search and data visualization tools.

N-Men's-Morris Ruleset Generator Project **Feb.2016-April.2016**
Reduced the Six-Men's Morris game to a mathematical function and in a team of four composed the accompanying software architecture and documentation. Implemented in Java with minimized code coupling, high modularity, and data type optimization.

Jr. Student Researcher - Munk School of Global Affairs **Sept.2012-Jun.2013**
Worked as a team of five under Professor Joseph Wong head of political science at University of Toronto. Presented an integrated digestive privy technology and an implementation plan as a solution to the problem of sanitation in the global south in a final symposium to a panel of scientists and engineers at the University of Toronto.

Student Researcher - NHSS **Feb.2013-Jun.2013**
Presented a closed-loop energy reduction system to the NHSS management with an initial investment cost of under $300,000 projected to finance itself in 16 years in savings and generate an excess of $392,000 in profit over its calculated 40 year lifespan. The design consisted of SPR-327NE-WHT-D sub panel arrays to reduce energy consumption by 17% for the first 10 years and 16% afterwards.

Universal Animated Reader **May.2014-Aug.2015**
Web extension that can be used on any webpage. Displays images, texts, links, and videos in a visually pleasing manner. Implemented using Adobe ActionScript 3.0 and Adobe Flash tools.

SKILLS

Programming Languages: Software: C/C++, Java, Python **Hardware:** VHDL, Verilog
Web Design: HTML5, CSS3, JavaScript, ActionScript 3.0 **Web Design Frameworks**: Bootstrap
Operating Systems: Linux, Mac OS, Windows
Applications: Matlab, Maple, MapleSim, Eclipse, IntelliJ Idea, Visual Studio, Git, Sublime Text, Microsoft Office, AutoCAD, Altera Quartus
Laboratory: Circuit Analysis, Function Generator
Hardware: Circuit Design, Digital System Design, Microcontroller, Signal Processing, Feedback and Control Systems

AWARDS

McMaster Entrance Scholarship: Entrance Scholarship for 90% average **Sept. 2013**
Phoenix Award: Awarded to top 9 Students with highest GPA **June 2010**
Valedictorian: Highest GPA and graduation closing presenter **June 2009**

EXTRACURRICULAR ACTIVITIES & HOBBIES

Member - Hack-It-Mac, Software Engineering Club
Hackathons, Coding and Technology-related Research

References available upon request