Saif Elkholy

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Education

McGill University, Quebec, Canada — September 14' – present

B.Eng. in Computer Engineering — (Expected graduation June 19')

- McGill Undergraduate entrance award scholarship: Awarded to top 1-2% of a class
- 4th year of Computer Undergraduate studies
- **GPA:** 3.54

Professional Experience

District m, Montreal, Canada — January 17' – August 17'

Full Stack Developer - Intern

- 8-month internship; full stack developer using React JS and Symfony3 frameworks
- Agile, TDD development of a web product (Team 'Sprint' workflows)
- Used React-Redux and other npm libraries for a fluid UX (react-redux-router, react-dates, redux-forms)
- Used symfony3 native components to create forms, manipulate a SQL database, and validate API form-data
- JIRA, Bamboo and BitBucket for project management, continuous testing and integration, and git version control

Arts Undergraduate Theatre Society, Canada — September 15' – Present

(Assistant) Technical Director

- Organised a plan for set building using the plan outlined by the Technical Director
- Worked in a team of 4/5 students to construct the set design plans in a friendly and encouraging atmosphere
- Communicated Clearly with the Technical Director on updates from the workshop regarding the set build

Engineering Projects

Magic Mirror — https://github.com/kholysa/MMirror — June 16' – August 16'

- Designed and developed a C# program to run on the Raspberry Pi (running an Ubuntu Mate installation)
- Used the Mono Project to run a WPF C# program on a Linux distribution
- Extensively used Visual Studio's debug tools, increasing my code's readability and reusability
- Used Rest-APIs from multiple servers to get weather and stock data, using algorithms to view relevant data
- Designed and developed a companion android app that selects the desired city and stock data to view, streamlining the user experience
- Interfaced the software with the "E18-D50NK" I.R. sensor to switch between Weather and Stock view

Home Audio System — https://github.com/W2016-ECSE321/Group11 — January 16'– May 16'

- Designed and implemented the desktop view and controller for the H.A.S. using Java, and Eclipse plugins (Window Builder, JDT Debug tool)
- Followed an agile development process on an MVC architecture using Git and continuous integration tools such as Travis CI, decreasing test times by 5%
- Constantly collaborate with other team members, laying out the timeline our group would follow

Design Principles & Methods — https://github.com/kholysa/Design-Principles-Methods — January 16' – May 16'

- In charge of testing documentation for the Lego LeJos robot
- Followed a set procedure for testing, ensuring the programmers waited less than 3 days for test results
- Compiled and wrote the timeline and technical test documents for my group's final report

Skills & Extra Curricular

Linguistics: English (fluent) Arabic (fluent) French (basic conversation)

Computer: Rest-ful applications, Php Symfony, React JS, C#, Linux terminal, Java, Excel, HTML - CSS, Continuous Integration

Hobbies: Snowboarding, Squash, Football, Violin, Painting