SAMI JABER

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WORK EXPERIENCE

- **Amazon – Software Developer Engineer Intern (Upcoming Internship) - Seattle, WA**   Summer 2014

- **Genetec – Software Developer Intern - Montreal, QC**   January 2014– April 2014
  - Programmed in **F#** and **.NET**. Made regular use of asynchronous workflows, and successfully implemented the actor model as a successful concurrent system. Completed highly requested features to monitor sensitive security systems.
  - Developed two software projects that automate tasks such as scheduling, monitoring and logs capturing on remote embedded systems. Coordinated project milestones with lead Tech Support and Testing developers.

- **Google Summer of Code - Scala Team – Kojo IDE (Script Tracing)**   Summer 2013
  - Implemented a debugger for an IDE. The debugger compiles a user-written **Scala** script, creates a new **Java Virtual Machine** to host the process, and then displays its trace history along with all variable values and return values throughout execution.
  - Wrote an object inspector using the Java Debugging Interface. The inspector provides run-time data about an object on another JVM at any point in the program's execution history.

- **HackMcGill – Co-Founder, Director**   September 2013 - Present
  - Co-founded and ran the first hacking movement at McGill. Involves beginner lessons (Hack101), weekly meetups, sending students to Hackathons, and forming teams to work on projects and ideas.
  - Organized McHacks (http://mchacks.io), Canada's largest Hackathon with 450+ attendees and 35+ schools
    - First Canadian Hackathon to be part of MLH (Major League Hacking)
    - Raised $90,000 in a month, exceeding budget by over $20,000.

EDUCATION

McGill University, Faculty of Science, Montreal, QC, Canada   Class of 2015
Bachelor of Science, Joint Honors Degree in Computer Science and Mathematics
Awards and Societies
- McGill IEEE Student Branch;   *VP Undergraduate Affairs (2012-2013)*
- McGill University Scholarship: *James McGill Entrance Scholarship (2011-2012)*

Languages: Trilingual fluency in French, English and Arabic.

HACKATHONS & PROJECTS

- Y-Hack '13 (24h Hackathon – Team of 3)
  - Created **MathGenius** (http://mathgenius.meteor.com/)**,** a website that allows for the annotation and crowd-sourced interpretation of mathematical theorems. Uses a Wikipedia-like format to allow users to add new articles and collaborate on them.
  - Used **JavaScript** and **Meteor.js** for both client- and server-side code.

- McGill CodeJam '13 (48h Hackathon – Team of 5)
  - Wrote a machine-learning app that predicts energy consumption for McGill using previous available data.
  - Used **JavaScript**, **nvd3**, **jQuery**, along with other UI libraries.

- McGill CodeJam '12 (48h Hackathon – Team of 3)
  - Wrote a web app that computes multiple moving averages and automates stocks trading decisions.
  - Used **JavaScript** (mainly **Node.js**, **Socket.io**, and **Underscore.js**) along with other external libraries.

- 500 (Card Game): Implemented Advanced AIs that capitalized on an **Observer Design Pattern** to make decisions.
- Artificial Intelligence: a modified high win-rate **Monte-Carlo Tree Search** algorithm for a board game.
- Personal Project (High School): Wrote a complete Minesweeper game using **Visual Basic**.

OBLIGATORY LONG LIST OF LANGUAGES

Comfortable with Java, Scala, Standard ML, F# ••• Experience in C, JavaScript (jQuery, Node, d3), HTML ••• Basic knowledge of PHP, Python, assembly