Ahmed Elkady

2B Computer Engineering

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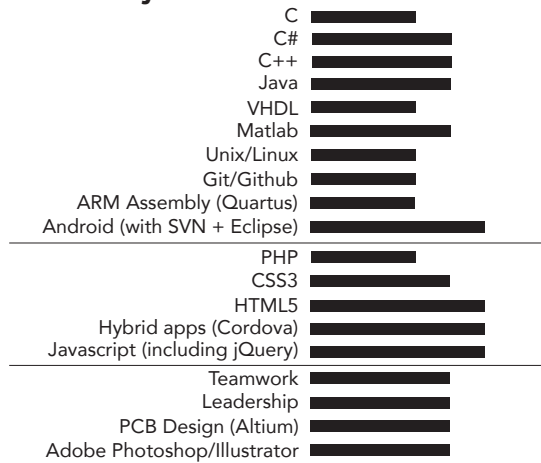
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Summary of Qualifications:

C
C#
C++
Java
VHDL
Matlab
Unix/Linux
Git/Github
ARM Assembly (Quartus)
Android (with SVN + Eclipse)

PHP
CSS3
HTML5
Hybrid apps (Cordova)
Javascript (including jQuery)

Teamwork
Leadership
PCB Design (Altium)
Adobe Photoshop/Illustrator

learnt through

University Courses

Co-op Work Terms

Extracurricular University Activities

Employment

| IT Intern | CGG, Singapore | Jan. - April 2014 |

- Developed and programmed hybrid mobile applications using Phonegap and Cordova tools
- Created several internal company apps from scratch which allowed people to keep track of their seismic processing jobs as well as enabling them to acess other company files and emails
- Wrote PHP in order to synchronize application, settings and file updates with the company servers
- Created a comprehensive file browser for the Android version of the hybrid applications
- Investigated the uses of tapes in the seismic industry, and concluded that they were too costly to maintain and recommended that old seismic data be transfered to newer storage technologies
- Installed, programmed and ran tests on the Intel Xeon Phi Co-processor using C++, in order to test its ability to speed up and work in parallel with the CPU and speed up seismic processing jobs

| Electrical Eng. Intern | Promarman Oils & Fats, Kuala Lumpur, Malaysia | May - Aug. 2013 |

- Worked on maintaining and establishing the email servers for the company
- Designed and developed the company website, learning HTML, Javascript, and CSS in the process
- Worked on establishing the VPN network for the company, familiarizing myself with scripting

Activities and Awards

| Participant | Midnight Sun Solar Car "Rayce" Team, University of Waterloo, ON | Aug. 2013 - present |

- Worked on debugging the Chaos circuit board through LEDs
- Learnt how to use Altium and understood the fundamentals of PCB circuit design

| Eng. Int'l Student Scholarship/Grant | University of Waterloo, ON | Aug. 2012 |

| President's Scholarship | University of Waterloo, ON | Aug. 2012 |

Education

| Waterloo, ON | University of Waterloo | Sept. 2012 - present |

- Candidate for Bachelor of Applied Science in Computer Engineering
- Courses: Operating Systems, Algorithms and Data Structures, Embedded Microprocessor Systems, Electronic Circuits, and Digital Computers
- Created several Android applications, including one which, using a preloaded map, was able to draw a path between two points on the map which didn't hit any obstacles and could track your movements

Leadership Experience

| Semi-Formal Director | Eng. Society, University of Waterloo, ON | Jan - April 2013 |

- Directed the engineering semi-formal through selling tickets and advertising the event
- Collaborated with a small team of directors to book the venue and prepare the budget
- Co-ordinated the logistics of a 200-person event, including organizing the menu and decorations

| Academic Representative | University of Waterloo, ON | Sept. 2012 - present |

- Elected by the class to meet with professors and the ECE department to give feedback about classes
- Communicated with classmates to deliver their concerns and issues to the professors.
- Created a Facebook group for our class in order to improve inter-personal communication and to provide a forum to discuss class-related issues and to enhance everyone's educational experience