AHMED TAMRAWI

PHD STUDENT & SOFTWARE DEVELOPER

GET IN TOUCH WITH ME

Website
www.public.iastate.edu/~atamrawi

Mobile
(515) 441-0231

Email
ahmedtamrawi@gmail.com

+ EMPLOYMENT

May 2013 – AUG 2013

EnSoft Research & Development Engineer - Internship
- o Developed a platform for computational modeling of C programs using graph representations. In its core, C-Atlas processes the Abstract Syntax Tree of a C program then it uses a broad range of polynomial-time static analyzers to compute and store a database of relations between different program artifacts. These relations can be visualized and accessed through Java APIs.
- o Used C-Atlas to verify the different instances of safe-synchronization property in Linux kernel.

SEP 2007 – JUL 2009

G.ho.st Research & Development Engineer
- o Being a part of the development of a Global web Hosted Operating System (G.ho.st) which provides users with daily-life essential applications and widgets such as: e-mail service, documents and presentations editing, social media, chatting, and free storage. The idea is to eliminate the need of a local storage and to keep everything synched on the cloud. Simply a virtual computer over the internet. We used OpenLaszlo; an XML-based language to render our GUI side. For the server side, we used Java.
- o Developed an e-mail client that integrates with Zimbra e-mail for the e-mail service. Also, I have developed a Google Docs Explorer, where you can synch, view, edit, and create documents.
- o Integrated multiple other services into the system and developed widgets to show status updates and notifications such as: Facebook, Twitter, and IM services.
- o Fixed almost ~2000 bug reports and was called "Bug Terminator"!

JUN 2006 – JAN 2007

MBRM Software Developer - Internship
- o Developed web and windows applications to satisfy customers' needs, using ASP.NET, C#, Visual Basic, and C++.
- o Developed the company's Content Management System (CMS) for creating, managing, and editing their customers' websites.
- o Developed a web news crawling algorithm that takes a list of news websites, then crawls those websites via fetching their HTML source. Finally, generating a set of HTML pages for the crawled news articles.

+ EDUCATION

2012 - Present
Computer Engineering – PhD
Electrical and Computer Engineering Department
Iowa State University
Source and Binary Code Analysis & Verification

2009 - 2011
Computer Engineering – MSc
Electrical and Computer Engineering Department
Iowa State University
Program Analysis, Data Mining , Machine Learning

2002 - 2007
Computer Engineering – B.Eng
Hijjawi Faculty for Engineering Technology
Yarmouk University - Jordan

+ TECHNICAL SKILLS

Skill	average	good	skilled
C, C++, C#, JAVA	◉ ◉ ◉	◉	○
HTML, XML, JavaScript	◉ ◉ ◉	◉	○
DirectX, OpenGL	◉ ◉ ○	○	○
ASP.NET, GWT	◉ ◉ ○	○	○
OpenLaszlo	◉ ◉ ◉	◉	◉
Unix Shell Scripting	◉ ◉ ○	○	○
Assembly Language	◉ ◉ ◉	○	○

+ PROFESSIONAL SKILLS

Skill	average	good	skilled
Research & Analytics	◉ ◉ ◉	◉	○
Written & Verbal Com	◉ ◉ ◉	◉	○
Technology	◉ ◉ ◉	◉	◉
Presentation Skills	◉ ◉ ◉	◉	○
Project Management	◉ ◉ ◉	○	○
Leadership	◉ ◉ ◉	◉	○
Learning Curve	◉ ◉ ◉	◉	○
Object-Oriented Design	◉ ◉ ◉	◉	○
Problem Solving	◉ ◉ ◉	◉	○
Agile Development	◉ ◉ ○	○	○
Algorithm Design	◉ ◉ ◉	◉	○

+ PROFESSIONAL HIGHLIGHTS

- + Experience in program analysis and static analysis especially for Java, C++, and X86 assembly language.
- + Experience in technical writing, documentation, presentation, and more.
- + Proven ability to collaborate across different departments and teams to release products.
- + Passion for keeping up with emerging technology and the latest breakthroughs.
- + Fair experience in object-oriented design and project planning and design.
- + Fair experience in data mining and topic analysis via machine learning.
- + Published 6 research papers in top software engineering conferences ICSE, FSE, and ICSM.