Ruba Merza

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Education

PhD. in Computer Science

Evanston, IL, USA, Northwestern University   *2013–2014*

Discontinued

Advisor: Prof. Fabian Bustamante

Courses: Operating Systems, Algorithms, Distributed Systems, and Networking

MSc. in Computer Science

Evanston, IL, USA, Northwestern University   *2011–2013*

GPA: 3.75

Advisor: Prof. Goce Trajecevski

Courses: AI Programming, Simulation of Virtual Characters, Data Structures, Intermediate Graphics, Database Systems

BSc. in Information Systems

Sakhair, Bahrain, University of Bahrain   *2007–2011*

GPA: 3.92

Courses: Computer Architecture, Introduction to Networking, C++ programming, Information Security

Experience

Projects

Aqualab: Prof. Fabian Bustamante   **Evanston, IL**

Namehelp   *Feb 2014–September 2014*

Ported Namehelp from an old framework to a newer framework that enables developers to easily add extensions to the project.

Namehelp is a recursive DNS resolver that runs directly on users' machines proving performance and anonymity benefits while performing network experiments to collect data for Aqualab.

Prescience Lab: Led by Prof. Peter Dinda   **Evanston, IL**

Palacios   *Feb 2013–June 2013*

Wrote a paravirtual graphics card for Palacios, an open source virtual machine monitor.

Art Institue of Chicago: Led by Prof. Jack Tumblin   **Chicago, IL**

Mosaic Browser   *January 2012–September 2012*

Developed an application for viewing planar mosaics from the Art Institute of Chicago.

Worked with a data set consisting of 1600 photos each 8,000 x 12,000 pixels.

Implemented the application as a webpage using the My Object-Oriented Tools library for Javascript.

Internships
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Matrikon Middle East Inc.   **Alhidd, Bahrain**
Summer Intern   *July 2010–September 2010*
Worked on an application for monitoring hardware performance using C and ASP.NET for one of Matrikon's clients from the oil industry.
Designed the application to access real-time data from an Oracle database and OSISoft's PI system.
Created 300+ process graphics using the company's proprietary software ProcessNet.
Developed an Excel parser that retrieved data from a SQL database and linked the corresponding graphics files to that data.
Wrote a parser used by Matrikon's developers to retrieve information from XML files and store it in Excel sheets

Languages

Arabic: Native   *reading, writing, speaking*
English: Fluent   *reading, writing, speaking*

Computer skills

Languages:: Python, C, Java, HTML, JavaScript

Environments:: Linux/Unix, previous Windows user