Islam Akef Ebeid

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I am a PhD Student in the Department of Information Science at the University of Arkansas at Little Rock. I research innovative ways of visualizing information especially with the evolution of virtual and augmented reality technologies. I also experiment with techniques of interacting with data using commodity depth cameras and sensor technology. I focus on research topics that lie in the intersection between human computer interaction, information visualization and computer vision across different media and mixed reality platforms. Shaped by a systematic education in Mathematics, Systems Engineering and Information Science combined with several years of industry experience in data modelling, database and user interfaces, my goal is to create systems in which information are handed to pipelines of modelling, transformation, rendering, and interaction producing a visually pleasing and interpreted interactive data visualization experiences.

Education

• PhD, Information Science

2015 / 2020

Department of Information Science, University of Arkansas at Little Rock, Little Rock, AR Advised by Prof. Carolina Cruz Neira

GPA: 3.62/4.0

Related Courses: Data Quality, Virtual Reality, Computer Graphics, Information Visualization, Database Design

MSc, Information Science and Technology

2011 / 2013

Department of Computer and Information Science, Arkansas Tech University, Russellville, AR Advised by Prof. Larry Morell

GPA: 3.92/4.0

Related Courses: Decision Support Systems, Database Design, Web Development, Data Warehousing, Web User Interface Design

BSc, Computer and Systems Engineering
 Department of Electrical Engineering, Ain Shams University, Cairo, Egypt
 Graduation Project: Distinction

2003 / 2008

Certifications

•	ITIL Foundation in IT Service Management Certification - EXIN	2013
•	Engineer in Training (FE) - NCEES	2010

Honors

Distinctive Senior Design Graduation Project - Ain Shams University

 Honorable mention for the contribution in Dr. Mihir Jaiswal PhD dissertation titled "Analysis of protein-protein interactions using chemical cross-linking mass spectrometry (CXMS): Novel computational approaches"

Top 30 class in 3 years high school out of 1500 students
 2000 / 2003

Posters

- MCBIOS 2015 Poster "XLPM Map Viewer: A protein-protein interaction map viewer"
- MCBIOS 2016 Poster "VisInt-X: Visualizing protein-protein interactions"
- University of Arkansas at Little Rock Research Expo 2015 Poster "XLPM Map Viewer: A proteinprotein interaction map viewer"

Participation

- ACM Super Computing 2016, represented University of Arkansas at Little Rock as part of the great planes network booth
 Salt Lake, Utah
- Journal of Imaging Science and Technologies, Peer reviewer
- Nvidia GDC Conference 2016, Accepted as a volunteer

San Francisco, California

• ICAT-EVGE 2016 Virtual Reality Conference, volunteer

Little Rock, Arkansas

2008

Publications

 Ebeid, Islam Akef and Cruz-Neira, Carolina and Jaiswal, Mihir and Zybaylov, Boris. "Protein Chemical Cross-linking/Mass Spectrometry: From raw data to fully immersive visualizations."
 San Fransisco: Electronic Imaging, 2016. 1-7

Book Chapters

• Invited to participate in a call for chapters in a book titled "Big Data Storage and Visualization Techniques" / Still in progress - Publisher: IGI Global

Selected Professional Experience

Research Intern

Intel Corporation – Visual and Parallel Computing Group

Santa Clara, California

April 2016 / September 2016

- Implemented a Visual Simultaneous Localization and Mapping algorithm in an Intel proprietary GPU programming library based on Intel RealSense Technology.
- Applied the implemented algorithm to a Virtual Reality application exploring the potential applications of Intel's GPUs in this field.
- Researched the possibility of creating user interfaces in a mapped augmented reality environment
- Advised by Dr. Yuting Yang

Software Engineer

Information Network of Arkansas (NIC Inc.)

Little Rock, Arkansas

May 2013 / August 2014

- Provided production support for Arkansas.gov state portal's visual interface backend information system
- Fixed major issues in the Arkansas State Police portal which led to the enhancement of the accident reports process
- Participated in ITIL certification exams which helped increasing and service level of agreement index of the company
- Provided development support for test versions of new e-government services backed by the development team
- Contributed to the migration to Sales Force customer management system

Software Engineer

Contractor Based

Mediterranean / North African Region

January 2009 / August 2011

- Designed and developed a big data visual solution for applying promotions to customer accounts in the telecommunication business model. The application was successfully installed at Maroc Telecom and Tunisie Telecom
- Contributed to the migration of new database systems at Tunisie Telecom through redeveloping user interfaces and securing the connection to the database
- Developed with a team a set of big data batch jobs utilities for telecommunications businesses at Orange Telecom
- Collaborated with the integration team at Orange Telecom to install and enhance the integration between billing and all other systems using WebMethods Data Integration platform
- Contributed to the development of the migration procedures of revenue assurance systems for telecommunications at WeDo Technologies

Teaching / Graduate / Research Assistantship Appointments

Graduate Assistant

Arkansas Tech University Fall 2011 / Spring 2012

Department of Computer and Information Science - Prof. Roger Fang

Graduate Assistant

Arkansas Tech University Summer 2012

International student services office - Mr. Yasushi Onodera

Teaching Assistant

Arkansas Tech University Fall 2012

Introduction to computer programming – Prof. Matt Brown

Teaching Assistant

Arkansas Tech University Spring 2013

Computer Networks I - Prof. Jerry Wood

Research Assistant

University of Arkansas at Little Rock Fall 2014 / Spring 2015 / Summer 2015 / Fall 2015

Department of Information Science - Emerging Analytics Center – Prof. Carolina Cruz Neira

Teaching Assistant

University of Arkansas at Little Rock Spring 2016

Information Visualization – Prof. Dirk Reiners

Teaching Assistant

University of Arkansas at Little Rock Fall 2016

Programming in Python – Prof. Dirk Reiners

Technical Tools

Programming Languages	C/C++ Java JavaScript PHP
Database	SQL PLSQL TSQL Oracle MySQL Microsoft Business Intelligence Suite
Graphics	OpenGL WebGL D3 VRJuggler OpenVR
Parallel Programming	OpenCL CUDA
Computer Vision	OpenCV Intel RealSenseSDK Microsoft Kinect SDK
Operating Systems	POSIX Windows
Servers	Tomcat Websphere
Web	XML HTML JQuery SOAP REST
IDE	Netbeans Visual Studio Eclipse
Bioinformatics	VMD GLMol PDB
Simulation	Matlab R

Personal Interests

- Space exploration enthusiast
- Photography on an amateur scale
- Home crafts
- Philosophy