

We are our choices. - Jean-Paul Sartre

EDUCATION

M.S. Computer Engineering - Purdue University, Indianapolis

Anticipated Graduation: **Dec 2018**

Relevant Courses: Advanced Database Management, Programming for AI, Parallel Computing

B.S. Information Technology - University of Tabriz, Iran

Graduated: **June 2016**

Relevant Courses: OOP Programming, Data Structures, Database Management

PROFESSIONAL EXPERIENCES

R&D Software Engineer - CourseNetworking (thecn.com) - Indianapolis IN

Jan 2017 - Present

- Managed a group of developers and interns to implement IMS Global Common Cartridge standard in the CN
- Designed and developed automated and unit tests
- Performed design documents to improve the CN's capabilities to support IMS Global Question & Test Interoperability standard

Graduate Research Assistant - CyberLab (cyberlab.iupui.edu) - Indianapolis IN

Dec 2016 - Present

- Proposed modified RNN and FFNN models to predict water consumption for central Indiana to Citizens Energy Group
- Launched a commercial and applied science research project about intelligent agents to help the students in their academic life

Software Engineer Intern - Rasaneh System - Tabriz, Iran

Sep 2015 - Apr 2016

- Developed modules, plugins and plugins for Joomla and Wordpress
- Achieved hands-on training on web development (HTML, CSS, JS, PHP, MySQL)

Research Intern - Health Informatics - Saeb Clinic - Tabriz, Iran

Dec 2014 - May 2015

- Analyzed patients' clinical notes and applied NLP algorithms to extract medication information
- Developed a scrapping tool to export large amount (over 4 million) of patient-generated data from 5 popular breast cancer forums to discover hidden aspect of patients' day-to-day life

PROJECTS

Intelligent Agent *Relevant Technologies: PHP, Go, JS, jQuery, Machine Learning*

June 2017

- Proposing and developing an intelligent agent to discover the learners' and the instructors' needs and answer them in a way that has positive effects on their learning environment and academic life
- The Agent will analyze complex data to make recommendations for the students to help them to progress in their courses
- Agent will allow the instructors to delegate their work about finding some useful course materials

Common Cartridge 1.3 Implementation *Relevant Technologies: PHP, JS, HTML, XML, Json*

March 2017 - Aug 2017

- Created design documents and implemented IMS Global Common Cartridge in the CN
- The extension will allow the instructors to package and exchange digital learning materials and assessments of their desired course contents with any other IMS Global CC certified learning management systems

Feed Forward Neural Networks with Back Propagation *Relevant Technologies: C, MPI*

Feb 2017 - June 2017

- Developed native C-based FFNN and RNN to work in parallel systems' architecture
- The networks are programmed to predict and recommend daily and monthly water demand models for central Indiana

Distributed Data Extraction & Analysis *Relevant Technologies: PHP, Mallet, NLP, Text Mining*

Jan 2015 - May 2015

- Developed a web-based application to extract vast number of users' posts
- Employed topic modeling NLP techniques and compared the themes and patterns among dominant topics to discover the breast cancer patients' hidden challenges and the needs that might not be addressed by healthcare providers

PUBLICATIONS

- A water demand prediction model for Central Indiana - *Setu Shah, Mahmood Hosseini, Zina Ben Miled* *In Preceding*
- Hidden Aspects of Breast Cancer Patients' life: An NLP Approach - *Masoud Hosseini, Mahmood Hosseini, Josette Jones* *May 2015*

AWARDS

- Jafari Exceptional Graduate Research Assistant Scholarship** - Purdue University, Indianapolis *Dec 2016*
- Best Poster Award "Hidden Aspects of Breast Cancer Patients' life: An NLP Approach"** - IndyBigData Conference *May 2015*

SKILLS

Languages & Frameworks: C | C++ | Python | C# | Java | JS
PHP | Go | MPI | Yii | HTML | HTML5 | CSS | CSS3 | jQuery
Bootstrap | ReactJS | BackboneJS | NightwatchJS
DBMS: Microsoft SQL Server | MySQL | MongoDB | SQLite

Technologies & Platforms: Agile and DevOps | MVC | Jira | PHPUnit
AJAX | RESTful APIs | Docker | Parallel Computing | Composer | GitHub
Data Mining Apps: Matlab | Weka | Mallet
Lingual Skills: English | Persian | Azeri

**References are available*