

Staff Software Engineer and open source contributor.

**Employment** ( Add me LinkedIn: <https://www.linkedin.com/in/omarithawi/> )

## Staff Software Engineer

**Appsembler - Boston, MA**

September 2017 - Present

- Led the design and implementation of 6 new microservices and 10 python packages.
- Led the automated testing efforts in our Open Source Tahoe LMS from 0 to 47% coverage on a ~1M LOC Python
- I've written docs all over the place and set up processes to merge 8000 commits from the Open Source edX code
- Mentored 4 Software Engineers towards technical excellence (**Ask me about them!**).

## Software Development Assoc Mgr

**Queen Rania Foundation - Jordan**

**June 2014 - September 2017**

- Led the Open edX team to maintain the Edraak platform with automated testing and continuous integration
- Developed the world's first web-based Arabic math rendering library as a MathJax extension
- Contributed to the growth of Edraak from 16k learners to 1.3M, through 200+ internal and 30+ open source pull requests

### Technical Team Leader

**Egra Tech, LLC - Jordan**

**April 2012 - June 2014**

- Led the technical team to create the company's first working MVP -- HTML5 desktop app with AWS-hosted REST API
- Supervised 3-4 software engineers and improved the joel test score from 0 to 6

## Senior Software Engineer

**August 2009 - April 2012**

- Led the TipnTag.com software engineering efforts @ TipnTag, LLC (2012)
- Trained a fresh software engineer on to lead darebnitv.com @ Semantic Intelligent Technologies (2011)
- Led the MealAdvisors.com a social network around food and restaurants @ Semantic Intelligent Technologies (2010)

## Education

## Princess Sumaya University for Technology

**Amman, Jordan**

**October 2011 - Aug 2015**

G.P.A. 93.10%

MSc Information System Security and Digital  
Criminology

- **Thesis Title:** Simple Access Control for postMessage API in Unmodified Browsers

**Al-Ahliyya Amman University**

**Amman, Jordan**

**October 2008 - June 2011**

BSc in Computer Science

Top on class 2011

G.P.A. 92.3%

## Technical Experience

### Notable Projects:

- **Configuration Service** (2022): A configuration microservice with git-like history to allow customers configure, test and undo their changes.
- **Arabic for MathJax** (2014): An extension for MathJax to display Arabic mathematical equations in Arabic.
- **Right-to-Left UI for edX** (2014): Added RTL support to edX (with other two contributors). Sass, Python, RTL.
- **Recitation Tutor** (2012 - 2014): Quran (Arabic) learning app via speech recognition to evaluate users pronunciation..
- **MealAdvisors.com** (2010) and **TipnTag** (2012): Specialized social networks in which I've used Zend Framework, Doctrine ORM, with single-page-app experience, MySQL.

## Languages and Technologies

- Python, Django, Open edX platform, Postgres, MySQL, JavaScript, React, Git, GCP Cloud Computing Platform, Docker.