

SUMMARY STATEMENT

As an engineer, I always used online tools to work on time consuming problems. With time, I grew an interest in web applications and decided to explore web development to enable me to build a variety of tools and applications. Since then, I went from no knowledge in web development to building full stack applications. In addition to the skills I learned, my background as an engineer and experience in problem solving enables me to develop intuitive, rich and smooth user-experience applications with a team having diverse backgrounds.

SKILLS

Programming languages: HTML, CSS, JavaScript

Frameworks & Libraries: Node.js, Express.js, Socket.io, MongoDB, React.js, Angular 2, D3.js, jQuery, Knockout JS, Jasmine, Sass, Bootstrap

Build tools and version control: Grunt, Git & GitHub

Techniques: Responsive Web Design, Object Oriented Programming

PROJECTS

Galleria (<https://amer-galleria.herokuapp.com/>) (Jan 2017)

- Built a responsive full stack application with Express.JS and MongoDB where users can share images, YouTube videos and articles with each other.
- Authenticated users can view, like and explore added items (images, articles and videos) as well as explore other users' pages.

Book Vault (book-vault.herokuapp.com/) (Dec 2016)

- Built a responsive full stack book sharing application using Express.JS, MongoDB and Google Books API.
- Authenticated users can use Dashboard to search for books (powered by Google Books API) and add selected books to their vaults.
- Authenticated users can view books added by all users and send trading requests. The recipient of the request can approve or decline the trading request.

D3 Global Surface Temperature Heat Maps (amashamdan.github.io/global-temperature/) (Sep 2016)

- Built a heat map showing the monthly global surface temperature from Jan-1753 to Sep-2015 using D3.js.
- Implemented tool-tip functionality where the user can red further information about a certain data point. Additionally, the user can switch back and forth between two different styles of the heat map.

Roguelike Dungeon Crawler (amashamdan.github.io/rouglike/) (Jun 2016)

- Built the game Rouglike Dungeon Crawler using React.js and Sass.
- Generated and placed the rooms, tunnels and all game items in each dungeon randomly.
- Implemented "Lights off" and "Lights on" modes which enables the user to choose between two visibility modes.

Neighborhood Map (amashamdan.github.io/p5-neighborhood-map/) (Oct 2015)

- Built a responsive single page app implementing MVVM architectural pattern and AJAX to search for places of interest in a certain city.
- Built with Knockout JS framework and JS google maps, OpenWeather and NY Times APIs.
- Features included: City search, POI search, results filtering, NY Times feed, Weather information, info Windows.

PROFESSIONAL EXPERIENCE

Full Stack Web Developer, *Conference on Crimes Against Women Phase II* (Jan 2017 - present)

- Addressing existing bugs and adding new features to the existing conference management system (Angular 2 and Node.js).
- Full front-end re-write using React.js.

Consultant - Full Stack Web Developer, *Drs4Me* (Nov 2016 – present)

- Building a full-stack Beta version for Drs4Me.com, a startup developing a web application for online health care providers search and appointment scheduling.

Assistant Professor, *Al-Zaytoonah University, Jordan* (Jun 2012 - Sep 2016)

- Teaching four Mechanical Engineering courses per semester and serving as an academic advisor for undergraduate students.
- Serving on Research, Curriculum, and Student Affairs committees in the Mechanical Engineering department.

EDUCATION

DEGREES

- **Ph.D., Mechanical Engineering, GPA: 3.87**, *Washington State University, Pullman WA* (Dec 2011)
- **B.S., Mechatronics Engineering**, *University of Jordan, Jordan* (Feb 2006)

BOOTCAMPS

- **Full stack web development**, *Free Code Camp* (Jan 2017)

NANODEGREES

- **Front End Web Development**, *Udacity* (Nov 2015)