

# Mohammed Rayyan Shaji

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[www.rayyanshaji.com](http://www.rayyanshaji.com) | [www.github.com/rayyanshaji](https://www.github.com/rayyanshaji) | [www.linkedin.com/in/rayyan-shaji/](https://www.linkedin.com/in/rayyan-shaji/)

Full Stack Software Engineer with strong skills in utilizing classical object-oriented programming languages and technologies to engineer high quality robust web applications. Enjoys bridging the gap between a business problem and a winning solution to it

## EDUCATION

### Master of Science, Computer Science

Loyola University Chicago

Dec 2020

Chicago, Illinois

- Coursework inclusive of Intermediate object-oriented programming, Algorithms and Complexity, Client-side Web Design

### Bachelor of Technology, Information Technology

Osmania University

June 2018

Hyderabad, India

- Accomplishments: Front-end Developer for the International ACM Student Club website

## SOFTWARE DEVELOPMENT PROJECTS – More projects and additional information available at [www.rayyanshaji.com](http://www.rayyanshaji.com)

### Nutritional Value Calculator | <https://github.com/rayyanshaji/comp424-nutritional-value>

Jan 2020 - May 2020

System built for users to extract nutritional values of various foods via Nutritionix API and track their progress

- Designed a memory efficient search algorithm using Vanilla JavaScript for retrieving instant nutritional information
- Enhanced user experience implementing auto completion feature using AJAX style programming
- Helped users visualize their progress with utilizing NodeJS and MongoDB for the data access layer and Charts.js

### Issue Tracking Software | <http://rayyanshaji.com/#issue-tracker>

Aug 2019 - Jan 2020

Designed and developed an Issue and Project Tracking software system for agile project teams to log progress and issues

- Utilized complex SQL subqueries to allow users to view and track relevant information to each issue and case on home page
- Reduced individual page load time to display cases by implementing pagination, and keyword search optimizations
- Engineered solutions for enabling users to reply separately to a case page using Python routes to create REST APIs.

### Task Management Web Application | Working Demo: <https://todolist-2bb37.firebaseio.com/>

May 2019 - Oct 2020

Task Management application that serves to aid users in scheduling and completing activities

- Created Restful web services that disabled the need to navigate to a new page for performing user actions
- Optimized performance and security of web services by compressing Java applications and deploying it to Azure cloud
- Enriched task page layout adding visually rich UI elements instead of plain text using Materialize CSS and vector graphics

## SOFTWARE ENGINEERING SKILLS

**Back-End Engineering:** Java, Spring Framework, Hibernate, C#, Python, NodeJS, MySQL, SQL Server, NoSQL (MongoDB, Google Firestore), Amazon Web Services (AWS), Azure Cloud, Version Control (Git, Ubuntu Linux), Docker (familiar)

**Front-End Development:** JavaScript, jQuery, TypeScript, Angular, React., Bootstrap, HTML5, CSS, LESS, WordPress

## RELEVANT EXPERIENCE

### Web Developer / Computing Specialist

Apr 2019 – Jan 2020

Loyola University Chicago, *Dept of Modern Arts and Literature*

Chicago, Illinois

- Improved outreach of the department's events and activities through integrating multiple media types on the website
- Aided the department in getting more visitors to the study space by providing exceptional problem-solving solutions related to software or IT hardware equipment issues

### Web Developer

Apr 2019 – May 2019

Loyola University Chicago, *School of Education*

Chicago, Illinois

- Designed 20 web page layouts utilizing HTML and internal CMS for information on available courses in 2 weeks
- Improved usability of the website by optimizing the way information is organized by modifying sections of information under drop down elements

### Web Developer

Aug 2018 – Oct 2018

Paxten Technologies

Hyderabad, India

- Generated leads for the company invigorating their landing website organizing marketable information on company's services and products
- Led a website redesign project for <http://rukseng.com/> from inception to delivery phase