

# ARSALAN SADRI

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## SUMMARY

Detail-oriented software engineer with a wide range of technical skills and experience in offering creative IT solutions for real-world problems. Versed in leveraging cutting-edge technologies to design, implement, deploy, and maintain modern, scalable web applications. Humble spirit, inquisitive overachiever, strong problem-solving skills, and sharp emotional intelligence.

## EDUCATION

**Master of Science in Advanced Computer Science and IT Management** (Degree) 2009

*University of Manchester, Manchester, United Kingdom* (ranked 27<sup>th</sup> in the world)

**Thesis:** Design Patterns Using Component-based Software Development

- Select courses: Building Web Applications, Research Skills and Prof Issue, IT Trends, Computer Security, Mobile Computing, IS Strategy & Enterprise, The Semantic Web

**Bachelor of Engineering in Computer Engineering- Software** (Degree) 2007

*University of Science and Culture, Tehran, Iran*

**Thesis:** Design and Development of Optical Character Recognition Software

- Select courses: Advanced Programming, Data Structures, Software Engineering, Machine Language and Assembly, Artificial Intelligence, Computer Networks, Principles of Database Design, Internet Engineering

## CERTIFICATES

**AWS Certified Developer – Associate** (Certificate) 2019

- Demonstrate an understanding of core AWS services, uses, and basic AWS architecture best practices
- Demonstrate proficiency in developing, deploying, and debugging cloud-based applications using AWS

**Full Stack Web Developer** (Certificate) (Transcripts) 2018

*UCI Division of Continuing Education, Irvine, CA, United States*

- A12-week full-time classroom [boot camp](#) focused on gaining technical skills in Git, [HTML5](#), [CSS3](#), [JavaScript](#), [jQuery](#), Responsive Web Design (RWD), Bootstrap, Firebase, Handlebars.js, [MySQL](#), Sequelize ORM, [MongoDB](#), Express.js, [React.js](#), [Node.js](#), MERN, RESTful Web Services, AJAX, API, JSON, GitHub, Model–View–Controller (MVC), Webpack, and Heroku
- 17+ assignments, 2 major group projects, and 1 major individual project

## TECHNICAL SKILLS

|                  |                                                                          |
|------------------|--------------------------------------------------------------------------|
| Front-end        | HTML5, CSS3, Saas, Bootstrap4, Material-UI, Vanilla JS, jQuery, React.js |
| Back-end         | Node.js (Express.js), Handlebars.js                                      |
| Databases        | MongoDB, MySQL, PostgreSQL                                               |
| Languages        | Python3, JavaScript ES6                                                  |
| Unit Testing     | Mocha.js, Chai.js                                                        |
| Containerization | Docker                                                                   |
| Module Bundlers  | Webpack                                                                  |
| Deployment       | Heroku, GitHub, Vercel                                                   |
| Cloud            | Amazon Web Services (AWS)                                                |
| Shell Scripting  | Bash, Z Shell (ZSH)                                                      |
| Version Control  | Git                                                                      |

PROJECT  
EXPERIENCE**A Facebook-like Social Media Web App** [GitHub Repo](#) | [Live App](#)*A minimalist React-based Node.js social media web app*

- Polished and responsive UI design on all pages across all platforms and screen sizes
- Sign-up form including profile picture, username, and password with validation on all the inputs
- Sign-in (user authentication) using the same credentials with alert in case of wrong credentials
- Users may modify their profiles, create or modify events, and upload pictures
- Technologies: React.js, Bootstrap 4, JSON Web Token (JWT), bcrypt, MongoDB, Node.js, Multer, Axios, Google Map API, and RESTful APIs

**Bit-error Concealment for VoIP and VoWLAN***Reusing packets damaged through wireless transmission*

- When the decoder fails to correct all the bit-errors that occurs through transmission, the application reconstructs damaged packets by means of DSSS Coding with Bit Errors and CRC
- The project consists of 6 steps namely, 1- Receive ASCII text message, 2- Receive ASCII text string with CRC subject to bit-errors, 3- Receive ASCII text string with more bit-errors and CRC, 3-IEEE 802.11 DSSS Coding with Bit Errors and CRC, 4- Convolution coding and decoding, and 5- Speech transmission, and 6- packet-loss concealment. (Socket Programming)

**EL+ Reasoner***Normalizing an OWL ontology such that it contains only sub-sumption axioms*

- Designing and developing an EL+ reasoner using the OWL API, description Logic, and Protégé
- The reasoner takes in an OWL ontology and returns a normalized OWL ontology such that it contains only sub-sumption axioms and all atomic sub-sumptions entailed by the input

PROFESSIONAL  
EXPERIENCE**Software Engineering Technical Expert**

2020 - present

*Chegg, Inc.*

- Meeting with students 1-on-1 in online video sessions to provide technical and professional support as the student progresses through the curriculum.
- Hosting open Q&A an-hour-long group sessions. I work directly with groups of students, teaching them web dev that support their journey to become professionals.

**Teaching Assistant**

2019 - present

*2U, Inc.*

- Teaching web development technologies 30 hours per week to 12-week classes of 24 students at the University of California, Irvine.
- Guiding students on their problem-solving thought processes, supporting them in their projects, providing feedback on their assignments

**Project Manager**

2015 - 18

*Sadra Trade and Services, Tehran, Iran*

- Directly in charge of coordinating operations from follow-up on the departure of cargo, managing customer service correspondence, endorsing the daily status reports, and resolving critical issues impacting core business activities
- Worked with CEO to develop an efficient workflow and employed a new business strategy resulting in a 10% increase in profits

**Full Stack Web Developer**

2012 - 15

*Gostareh System, Tehran, Iran*

- Back-end developer creating dynamically generated web pages via JSP, accounting for 70% of the company's server-side code
- Contributed to the front-end code by redesigning HTML forms