

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 27th 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**Remote Software Engineering Mentor**

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