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, Handelbars.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

Web Design	HTML, CSS, RWD
Front-end Framework	jQuery, Bootstrap, React.js, Material-UI
Back-end Frameworks	Node.js (Express.js), Handlebars.js, Django, Flask
Databases	MongoDB, MySQL, Firebase, GraphQL
Programming Languages	Python, JavaScript
Testing Frameworks	Jest
Containerization Tools	Docker
Module Bundlers	Webpack
Deployment	Heroku
Cloud Computing	Amazon Web Services (AWS)
Shell Scripting	Bash
Version Control	Git

RECENT
PROJECTS

A Facebook-like Social Media Web App   GitHub Repo | Live Demo
A minimalistic 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
- RESTful APIs and HTML routes
- Technologies: React.js, Bootstrap 4, JSON Web Token (JWT), bcrypt, MongoDB, Node.js, Multer, Axios, Google Map API

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 using Java socket programming
- 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

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

WORK
EXPERIENCE

Freelance Full Stack Web Developer   2018 - present

Project Manager   2015 - 18
Sadra Trade and Services Co., Tehran, Iran
- Directly in charge of coordinating operations from follow-up on departure of cargo, managing customer service correspondence, endorsing 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 10% increase in profits
- Actively generates process improvements and workflow enhancements

Full Stack Web Developer   2012 - 15
Gostareh System LLC, 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 through collaboration with UI designer, making it faster and simpler
- Actively worked with the product manager to provide feedback and contribute to long-term digital strategy

Graduate Teaching Assistant   2010-11
University of Manchester, Manchester, United Kingdom
- TA for Distributed Computing and Engineering Web Applications
- Grading lab assignments, answering students' questions, and taking attendance