

# ARSALAN SADRI

Irvine, CA 92612 | <https://Arsalan-Sadri.com>

## 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. A humble spirit, inquisitive overachiever, strong problem-solving skills, and sharp emotional intelligence.

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer

12/20 - present

*Disney Media & Entertainment Distribution (DMED)* | Burbank, CA, USA | Full-time

- Designed, implemented, and tested a feature that automatically builds assets' names based on their metadata upon asset creation, update, and bulk update. Utilized Apache Active MQ and Kafka to achieve asynchronicity
- Created REST APIs to enable external users to create, update, and delete assets via API calls. Exposed new routes, wrote controllers and services, and crafted test suites. Node.js, MongoDB, Sinon.js, Nock, Supertest
- Expanded a Kafka-based external data pipeline integration to consume Marketing Release as well as Episodic information of assets' titles.
- Authored extensive MongoDB migration scripts including those to build and assign 'abbreviation' to 4+ million titles in the database based on their name and update their episodic content

### Software Engineering Technical Expert

01/20 - 02/21

*Thinkful, Inc., A Chegg, Inc. Service* | Remote | Part-time

- Meeting with students 1-on-1 in online video sessions to teach them web development and administer mock interviews as they finish checkpoints
- Hosting an-hour-long Q&A sessions, working directly with groups of students, teaching them web dev that support their journey to become professionals

### Teaching Assistant

11/19 - 01/21

*Trilogy Education Services, A 2U, Inc. Brand* | Remote | Part-time

- Teaching web development to cohort-based on-campus classes of 20+ students 15 hours per week at the University of California, Irvine
- Providing support by hosting office hours before and after each session

### Project Manager

2015 - 18

*Sadra Trade and Services* | Tehran, Iran | Full-time

- In charge of coordinating operations from follow-up on the departure of the cargo, managing customer service relationships, endorsing the daily reports

### Full Stack Web Developer

2012 - 15

*Gostareh System* | Tehran, Iran | Full-time

- JSP developer, accounting for 70% of the company's server-side code
- Contributed to the UI enhancement by redesigning HTML forms and navbars

## EDUCATION

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

*The University of Manchester, Manchester, United Kingdom* (#28 in 2022 world ranking)

*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)*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)

- Demonstrate proficiency in developing, deploying, and debugging cloud-based applications using AWS

**Full Stack Web Developer** (Certificate) (Transcripts)*UCI Division of Continuing Education, Irvine, CA, United States*

- 12-week full-time classroom **boot camp** focused on gaining technical skills in Git, **HTML5**, **CSS3**, **JavaScript**, **jQuery**, Responsive Web Design (RWD), **MySQL**, **Firebase**, **Handlebars.js**, **Sequelize ORM**, **MongoDB**, **Express.js**, **Bootstrap**, **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

<b>Front-end</b>	HTML5, CSS3, Saas, Bootstrap5, Material-UI, Vanilla JS, jQuery, React.js
<b>Back-end</b>	Node.js (Express.js, Koa.js), Handlebars.js
<b>Databases</b>	MongoDB, MySQL, PostgreSQL
<b>Languages</b>	Python3, JavaScript ES9
<b>Unit Testing</b>	Mocha, Chai, Supertest, Jest, Nock, Sinon.js
<b>CI/CD DevOps Tools</b>	Docker, Jenkins, GitLab, Kubernetes, OpenShift, Heroku, GitHub, Vercel
<b>Module Bundlers</b>	Webpack
<b>Cloud Platforms</b>	Amazon Web Services (AWS)
<b>Shell Scripting</b>	Bash, Z Shell (ZSH)
<b>Version Control</b>	Git

## SELECT PROJECTS

**A Facebook-like Social Media Web App** [GitHub Repo](#) | [Live App](#)*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
- 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)