
JIBRAN USMAN

Lahore, Pakistan • +92 322 483 2471 • jibran.95@hotmail.com

Software Engineer

Summary

Hard working software development professional driven to write clean, efficient, and extensible code in a functional framework. Ability to learn new things quickly in dynamic-fast paced environments to collaborate with my team effectively. Committed to the total development life cycle, to carry out tasks functionally and professionally.

Professional Experience

Jul 2019 - Present

Software Engineer - Ruby on Rails

Square63

Developing web applications using various open source technologies centered around the rails framework including React, Angular, and similar modern JavaScript frameworks.

- Handling various use cases including
 - Authentication/API authentication using Devise
 - Jobs/memory management using Sidekiq, Redis
 - Various payment integration scenarios using Mollie, Stripe, Zoho
 - Elasticsearch integration and search analytics
 - API development and maintainence
 - Feature-based automation testing using Rspec
- Implementing custom front-end solutions using core JavaScript DOM manipulation and services like
 - Multi-step forms and AJAX modals
 - Nested forms using Cocoon
 - Scheduling and Date manipulation with FullCalendar
 - Multi-selection using Select2
- Usage of project management tools like JIRA and Trello in synchronization with professional development processes for deployment
- Experience with SQLite, MySQL, and PostgreSQL

Jul 2017 - Aug 2017

Software Engineering Intern

Punjab Revenue Authority

Developed a prototype HR management system in ASP.NET connected to SQL Server which supported CRUD operations for employee management .

- Developed basic authentication using session variables.
- Developed authorization and role based functions through associated database column.

Education

Feb 2020 - Present

Data Structures and Algorithms Specialization

Coursera - Offered by University Of California San Diego

Six course specialization to master algorithmic programming techniques for solving various computational problems and optimizing real world use cases.

2015 - 2019

Bachelor of Computer Science

National University Of Computer and Emerging Sciences (FAST-NU)

Relevant Coursework: Object Oriented Programming, Data Structures, Object Oriented Analysis and Design, Design and Analysis of Algorithms, Data Science, Computer Vision, Information Retrieval.

Skills

- Devising robust, functional web applications and server-side applications using *Ruby on Rails*.
- Developing a responsive and creative front-end using *Bootstrap*, *JQuery*, and *AJAX*.
- Database management with *SQL*, *MySQL*, *SQLite* and *PostgreSQL*.
- Proficient in fundamental programming and analytical problem-solving using *C++*, *Java*, *Python* and *Ruby*.
- Ability to devise computer vision solutions using *OpenCV* and *MATLAB*.
- Implementing various machine learning techniques for predictive analysis and classification of data.

Project Management Application

3-week long demo-project for learning rails, which includes, authentication and authorization, client management, project management, time-logging, comments, attachments and an API.

Git: <https://github.com/Jibran-Usman/ProjectManager>

Website: <https://project-manager-rails.herokuapp.com> User: admin@project-manager.com, Password: admin123

Live Football Statistics Generator (Final Year Project - Bachelors)

Real-time tracking of players during live match for automatic generation of possession percentage and goal count using Python and OpenCV.

Remote Browser Control (Freelance Client)

Created a basic desktop application in Java using selenium webdriver and integrating google hangouts which allowed the user to give commands via a google hangouts chat and control the browser on his machine running the application.

Multivariate Regression Model (Course Project)

Implemented single and multi-variate regression model from scratch in Python using numPy and Matplotlib. Algorithms used were gradient descent and the normal equation.

Search Index (Course Project)

Implemented a forward and inverted index after stemming and tokenizing words from a corpus of 3000+ html pages. Written in Python using BeautifulSoup, Xmlparser and numPy.