Ali Shahram Musavi

Full-Stack Developer

765-994-6106 | amusavi15@earlham.edu | Richmond, IN

http://alishahram.com
https://github.com/AliShahram
www.linkedin.com/in/alishahram

Technical Expertise

Frontend: HTML5, CSS3, Bootstrap, Javascript, jQuery, Ajax, D3.js
Backend: SQL (MySQL, PostgreSQL, SQLite), NoSQL (Amazon Dynamo DB), Python, Java
Frameworks/Tools: Django, Flask, React Native, Lektor, Serverless, Git, Bash
Networking: TCP/IP, Socket Programming, Protocol Design

Experience

Software Engineer, Co-founder **Easy Connect** (Richmond, IN) June 2017 - Present

- Designed a solution to automate city bus services with online payment and tickets, and led a team of four to implement a MVP of the system for the City of Richmond
- Implemented RESTful API with Serverless framework using Amazon Dynamo DB and AWS Lambda in the backend to enhance data storage and manipulation
- Developed Easy Connect passenger and driver mobile applications for IOS and Android, and implemented Square and Google Map APIs to improve payment accuracy and online vehicle tracking system
- Increased ridership by 40% and generated additional $300 thousand in yearly revenue, as projected from the City

Software Developer **Kabul University** (Kabul, Afghanistan) July 2018 – December 2018

- Implemented REST APIs in Node.js to manage the website's interaction with MySQL database, improving the retrieval, storage and manipulation of information
- Improved the user interface, user experience and interactivity of the platform using HTML, CSS and JavaScript and integrated Bootstrap to the existing codebase
- Played a key supporting role for the project lead in bringing positive cultural shift with the introduction of peer review, test coverage, issue tracker and CI/CD pipeline

Software Engineer Intern **Green Tech** (Kabul, Afghanistan) May - July 2018

- Maintained and improved connection to PostgreSQL, SQL Server and MySQL
- Implemented unit and end to end testing for several projects and worked closely with other team members to successfully deploy the code to production
- Created a visualization tool using the Python Tkinter and IPython, helping engineers to measure and analyze the impact of the change in water pressure, and height for a hydropower project

Projects

Self-service Library Management System | http://bit.ly/RFID_git

- Designed and implemented a full-stack library management system using RFID technology for the Computer Science department at Earlham College
- Developed administrator authentication, enabled complete monitoring of all operations and users, and the ability to place security measures such as maximum checkout time and number of items per checkout
- Implemented student user-interface, allowing efficient self check-in and check-out of multiple items at once

Tech Stack: HTML, CSS, Bootstrap, PostgreSQL, Django, Javascript, AJAX, RFID reader API

Airport Mapper | http://bit.ly/aiport-mapper-git

- An interactive program that visualizes connecting flights using D3.js given a distance, source and destination
- Designed a user-friendly GUI using Python Tkinter to get the input from the user and analyzed it using Pandas
- ***Tech Stack: Python, Javascript, HTML, Flask, D3.js, Tkinter, Pandas, NumPy***

Engaged Citizens | http://bit.ly/enaged-citizens-git

- A user friendly web application for users to subscribe for email updates on local legislative bills they care about based on selected topics
- Developed during a hackathon with two other developers

Tech Stack: Flask, MongoDB, OpenStates API, AWS Sandbox

EcEvents | http://bit.ly/ecevents-git

- A real-time event management application that can create, manage, and display events at Earlham college
- Users can log in and advertise events for 24 hours, 7 days or 30 days time periods

Tech Stack: HTML, CSS, Javascript, MYSQL, PHP

Education

B.A.: Computer Science and Economics, *Earlham College*- Richmond, IN **Expected May 2019**