Ali Shahram Musavi
Full-Stack Developer
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Technical Expertise
Frontend: HTML5, CSS3, Javascript, Bootstrap, jQuery
Backend: SQL (MySQL, PostgreSQL, SQLite), NoSQL (Amazon Dynamo DB, Mongo 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
- 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
- Implemented RESTful API with Serverless framework using AWS Dynamo DB and AWS Lambda in the backend to enhance data storage and manipulation
- 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
- 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
- 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

Projects

RFID Based Library Management System | http://bit.ly/RFID_git
- A library management system that allows self check-out and check-in and efficient inventory using RFID, developed for senior capstone project and used daily by over two hundred students
- Implemented user interface for administrator, enabling inventory, searching, sorting etc. of 1000 objects
  Tech Stack: HTML, CSS, Bootstrap, PostgreSQL, Django, 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
- Implemented backend using Flask, received data as json and visualized it using D3.js
  Tech Stack: Python, Javascript, HTML, Flask, D3.js, Tkinter, Pandas, NumPy

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

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

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