**Ali Shahram Musavi**

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**Technical Expertise**

* **Database:** MongoDB | Amazon Dynamo DB | MySQL | SQLite
* **Programming:** Python | Java | | HTML | CSS | SQL | Rest APIs | Bash/Shell
* **Operating Systems:** Linux | Windows

**Experience**

**Software Developer, *Kabul University-* Kabul, Afghanistan**  **June 2018 - Present**

* Engineered and maintained new features for Kabul University’s Learning Management System (LMS), enhancing access for over 20 thousand members
* Improved the user interface, user experience and interactivity of the platform using HTML, CSS and JavaScript and integrated Bootstrap to the existing codebase
* Implemented new APIs and managed the website’s interaction with MySQL database, improving the retrieval, storage and manipulation of information
* Enabled continuous deployment, designed automated framework, and mentored a group of three developers to implement a web application using Python and Django to access course materials online

**Founder and CEO, *Easy Connect-* Richmond, IN**  **July 2017 – Present**

* Researched market, collaborated with the City of Richmond and created a solution to improve the existing transportation system by integrating innovative technology such as tracking and online payment
* Implemented RESTful API with Serverless framework using Dynamo DB and Amazon AWS Lambda to store passenger data i.e., account balance and ridership
* Learned independently new concepts such as Square and Google APIs and worked closely with two software developers to implement payment platform and online tracking system using Python for seven vehicles
* Led a team of four developers, identified passenger and driver needs and implemented Easy Connect bus driver and customer mobile applications using React, improving time efficiency and communication
* Increased ridership by 40% and generated additional $300 thousand in yearly revenue, as the projected numbers from the City of Richmond predict

**Software Engineer Intern, *Green Tech Construction and Engineering-* Kabul, Afghanistan May-July 2018**

* Collaborated with a team of eight to develop a software package using Java and Python for the feasibility study of a railway project for the ministry of Public Affairs committing to a strict timeline
* Created a visualization tool using the Bokeh Python package 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 SQL, PostgreSQL, and SQL Server using Python
* Documented and implemented unit and integration testing for several projects reporting regularly to supervisor

**Projects**

**A Resource Management System using RFID, Senior Project- Earlham College**

* Designed and implemented an RFID based self-service system for Hopper STEM library at Earlham College used by over 1500 students enhancing time efficiency, security and inventory
* Scaled the project, and integrated Arduino board to alert for checkout overload or invalid checkout
* Implemented a web application using JavaScript and CSS, providing a platform for the administrator to monitor check-in/out and user information

**Breakthrough Game, Artificial Intelligence Project- Earlham College**

* Implemented a breakthrough game using Python, based on MinMax algorithm
* Designed smart AI agents with distinct strategies to play against each other in a two-dimensional environment
* Practiced object-oriented programming principles and implemented unit and integration testing

**Education**

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