

## Technical Expertise

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**Languages:** Python (Numpy, Pandas, TensorFlow, Scikit-learn), Java

**Backend:** SQL (MySQL, SQLite), NoSQL ( Amazon Dynamo DB, Mongo DB)

**Frontend:** JavaScript (jQuery), HTML5, CSS3, Bootstrap

**Frameworks:** Flask, Lektor, Django, Serverless

**Extra:** Git, Bash, SharePoint, MS Access, Machine Learning, Cloud, Agile Methodologies

## Experience

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### Software Developer

**Kabul University** (Kabul, Afghanistan) June 2018 - Present

- Implemented new APIs 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
- Worked closely with a group of three developers to implement a web application using Django and SQLite to store/access course materials

### Co-Founder, Software Engineer

**Easy Connect** (Richmond, IN) June 2017 - Present

- Identified passenger and driver needs and led a team of four developers to implement Easy Connect customer and driver mobile applications for IOS and Android
- Learned new concepts such as Square and Google APIs and worked closely with two software developers to implement online vehicle tracking system and improve payment accuracy
- Implemented RESTful API with Serverless framework using Dynamo DB and Amazon AWS Lambda to enhance data storage and manipulation
- Increased ridership by 40% and generated additional \$300 thousand in yearly revenue, as projected from the City of Richmond

### Software Engineer Intern

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

- Maintained and improved connection to SQL, PostgreSQL, and SQL Server using Python
- Collaborated with a team of eight to develop a software package using Java and Python for the feasibility study of a railway project committing to a strict timeline
- Implemented unit and integration testing for several projects and worked closely with other team members to successfully deploy the code to production
- 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

## Projects

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### A Self-service System using RFID

**Senior Capstone Project** (Earlham College) Aug - Dec 2018

- Built a web application using JavaScript, HTML, and CSS, providing a platform for the administrator to monitor material check-in/out and user information
- Implemented a REST API for MySQL database, and automated the process to update, retrieve and create items by the RFID reader
- Implemented Aloha based anti-collision algorithm for RFID tag identification to improve system throughput and enhance read/write accuracy

### Airport Mapper,

**Functional Programming Project** (Earlham College) March 2017

- Implemented a python based interactive application using Flask to visualize connecting flights
- Designed a user-friendly GUI using Python Tkinter to get the input from the user
- Analyzed and manipulated CSV input files using Pandas to scale distance between airports

## Education

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

**Expected May 2019**