

Muhammad Daniyal Saqib

SOFTWARE ENGINEER

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TECHNICAL SKILLS

- **Languages:** Python, Java, HTML, CSS, JavaScript, C/C++, Scala, R, jQuery
- **Frameworks:** React, Angular, NodeJS, Electron, VueJS
- **Cloud Computing:** AWS
- **Technologies/Tools:** Git, Linux, Eclipse, Bootstrap, Pandas, MongoDB, Sqlite3, LaTeX, Flat/Protobuffers

WORK EXPERIENCE

Software Engineer • ForMotiv, Philadelphia PA

June 2020 - Present

- Improved the loading time of ForMotiv's API by 25% by refactoring and optimizing ForMotiv's Javascript code
- Decreased integration time from a week to less than 2 days by developing and designing web-applications in React, Angular and other frameworks to write integration manuals for users
- Preprocess data in Python and R using feature engineering after retrieving data from MongoDB
- Working with clients' engineering teams to troubleshoot integration and implementation of ForMotiv's API

Software Engineer Intern • Silicon Labs, Boston MA

May 2019 - Aug 2019

- Designed and implemented user interface for the client-server network analyzer model to develop an application using Electron framework, emphasizing on cross platform development
- Decreased buffer time from 17s to less than 1s, using *ClusterizeJS* to buffer large sets of data
- Implemented socket in Electron to create routes to deliver data packets to the frontend UI
- Decreased transferring and serialization of data by 10x by utilizing Google protobuffers in Javascript and Java

Software Development Research Assistant • DePauw, Greencastle IN

May 2018 - Aug 2018

- Collaborated with Biochemistry professors to incorporate VR into coursework for 50+ Biochemistry students
- Analyzed the documentation and source code of ChimeraX's application to design basic UML diagrams
- Augmented existing Python APIs to install new GUI tools, allowing students to interact with lab work in VR
- Implemented different several Python and HTML scripts to display Python-scripted-labs in VR HTML windows

PROJECTS

Housing Prices Prediction, Python

- Used feature engineering and other techniques to preprocess data set and apply algorithms, such as GBR, to make 91% accurate predictions.

Calendar Times, Python, Django, SQL Lite, HTML, CSS

- Developed program to improve efficiency of networking and by automating displaying free times in your calendar by connecting to Google API.

Spotify Playlist, Python

- Developed a program that automated a playlist creation based on user's selected/favorite artists, using Spotify API and a Spotipy Library.

Apply, JS, jQuery, Bootstrap, HTML, CSS, Sqlite, Electron

- Designed and programmed a desktop application that acts as an assistant and organizer during job-seeking journey.

Credit Card App, Angular, TS, HTML, CSS, Bootstrap

- Developed a single page credit card application, using reusable custom directives, TS components and templates.

Portfolio Website, React, Gatsby, JS, HTML, CSS, SemanticUI

- Developed a single page web application, using React JS components and templates. Used SemanticUI, MaterialUI & ReactBootstrap for aesthetics improvements

EDUCATION

DePauw University

Bachelors Graduation May 2020

Major: Computer Science **Minor:** Mathematics, **Major GPA:** 3.46/4.00

Awards: Dean's Honor List: Fall 2016, Spring 2017, Spring 2019, Spring 2020

Selected Coursework: Operating Systems, Algorithmic Toolbox (Coursera), Data Structures, Data Mining, Artificial Intelligence