MUHAMMAD DANIYAL SAQIB

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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: Artificial Intelligence, Algorithmic Toolbox (Coursera), Data Mining, Statistical Computation

TECHNICAL SKILLS

- **Languages:** Python, Java, HTML, CSS, JavaScript, React, Angular, NodeJS, C/C++, Scala, Sqlite3, R, JQuery
- **Technologies/Tools:** Git, Electron, Eclipse, Angular, Bootstrap, Pandas, VueJS, LaTex, Flat/Protobuffers, Digital Logic

EXPERIENCE

Full Stack Engineer • *ForMotiv, Philadelphia PA*   *June 2020 - Present*

- Improved the efficiency of data transfer by 6% by refactoring of ForMotiv's API, written in Javascript
- Developed and designed single and multi page web-applications in React and Angular, using react-bootstrap, material-ui and other CSS libraries to design and write integration manuals in different frontend frameworks
- 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
- Used ClusterizeJS to buffer large sets of data, decreasing buffer time from *17s* to less than *1s*
- Implemented socket in Electron to create routes to deliver data packets to the frontend UI
- Utilized Google protobuffers in Javascript and Java, allowing *10x* faster transferring and serialization of data

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 applied algorithms, such as GBR, to make *91%* accurate predictions.

Spotify Playlist, Python
- Developing a program that automates a playlist creation based on user's selected/favorite artists, using Spotify API and a Spotipy Library.

Apply, JS, JQuery, Bootstrap, HTML, CSS, Sqlite3
- Designing and developing a desktop application that acts as an assistant and organizer during job-seeking journey.

Credit Card App, JS, TS, HTML, CSS, Angular, Bootstrap
- Developed a single page credit card application, using reusable custom directives, JS and TS components and templates. Used Bootstrap for aesthetics improvements

LEADERSHIP and EXPERIENCE

- **DePauw - Kelly Program:** Worked with a team to create a pitch to One Click Ventures executives providing marketing and partnership-based strategies for company growth.

- **NGP (Chairman):** Led a campaign collecting more than $50,000 to fund the education of underprivileged students.

SOFT SKILLS

Languages: English, Urdu, Hindi, Punjabi, Siraiki;   **Interests:** IoT, AI, VR, Social Reform and Social Philosophy

Other: Photography, Filming, Video/Image Production, Environmental Awareness, Community Service