

# Muhammad Daniyal Saqib

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## EXPERIENCE

### Full Stack Software Engineer • ForMotiv, Philadelphia PA

June 2020 - Present

- Improved the efficiency of data transfer by refactoring of ForMotiv's API, written in Javascript
- Developing data mining techniques to retrieve data from MongoDB and preprocess data in R/Python
- 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 protobufs 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

## 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 an Django application that connects with Google Calendar API to display free times in your calendar in a formatted string defined by user.

### Apply, JS, jQuery, Bootstrap, HTML, CSS, SQLite, Electron

- 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

## TECHNICAL SKILLS

- **Languages:** Python, Java, HTML, CSS, JavaScript, C/C++, Scala, MongoDB, SQLite3, R, JQuery
- **Frameworks:** React, Angular, NodeJS, Electron, VueJS
- **Technologies/Tools:** Git, Eclipse, Bootstrap, Pandas, LaTeX, Flat/Protobuffers, Digital Logic

## 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

## 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