MUHAMMAD DANIYAL SAQIB

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EDUCATION

DePauw University   *Bachelors Expected Graduation Dec 2019*
Major**:** Computer Science **Minor:** Economics and Mathematics**, Major GPA:** 3.46/4.00
Awards: Dean's Honor List: Fall 2016, Spring 2017, Spring 2019
Selected Coursework: ArIficial Intelligence, Algorithmic Toolbox (Coursera), Data Mining, Statistical Computation,

TECHNICAL SKILLS

- **Technologies:** Python, Java, HTML, CSS, JavaScript, NodeJS, C/C++, Scala, R
- **Technologies/Tools:** Git, Eclipse, LaTex, Flat/Protobuffers, Spyder, Digital Logic

EMPLOYMENT

Software Engineer Intern • *Silicon Labs, Boston MA*   *May 2019 - Present*
- Decoupling Network Protocol Analyzer from Simplicity Studio that is based on top of Eclipse IDE
- Designing and implementing user interface for the client-server network analyzer model to develop an application using electron framework, emphasizing on cross platform development
- Using ClusterizeJS to buffer large sets of data, decreasing buffer time from 17s to less than 1s
- Implementing socket in Electron to create routes to deliver data packets to the frontend UI
- Utilized Google protobuffers in Javascript and Java for efficient transferring and serialization of data

Software Development Research Assistant • *DePauw, Greencastle IN*   *June 2017 - July 2018*
- Collaborated with Computer Science and Biochemistry professors to incorporate ChimeraX into coursework
- Analyzed the documentation and source code of ChimeraX's application to design basic UML diagrams
- Augmented existing Python APIs to install new gui tools that work with virtual reality component of program
- Implemented different several Python and HTML scripts to display Python-scripted-labs in VR HTML windows

PROJECTS

8 Puzzle	**Housing Prices Prediction**
• Implemented and optimized 8 Puzzle Solver, in Java, using AI informed and uninformed search algorithms. Analyzed optimality using Breadth-First-Search and A* algorithms.	• Used feature engineering and other techniques to preprocess data set and applied algorithms, such as GBR, to make 91% accurate predications. Used Pandas, Scikit-learn, matplotlib and Seaborn for preprocessing.

LEADERSHIP and EXPERIENCE

DePauw University - Kelley Emerging Leaders Program   *Winter Term 2017 - 2018*
 • Worked with a team to create a pitch to One Click Ventures executives providing marketing and partnership-based strategies for company growth.

Muslim Student Association (MSA), *Vice President, DePauw, Greencastle, IN*   *Jan 2019 - Present*
• Organized and collaborated different events on campus to create an inclusive environment on campus.

Next Generation Pakistan (NGP), Chairperson   *Aug 2014 - Aug 2015*
• Led a campaign collecting more than $50,000 to fund the education of underprivileged students

SOFT SKILLS

Languages: English, Urdu, Hindi, Punjabi, Siraiki;   **Interests:** AI, Virtual Reality, Social Reform and Social Philosophy
Other: Photography, Filming, Video/Image Production, Environmental Awareness, Community Service