

# Umar Khattak

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## EDUCATION

Rutgers University, School of Engineering - New Brunswick, NJ

Expected Graduation Date: May 2022

B.S. in Applied Sciences in Engineering and Computer Science/Minor in Mathematics

Awards: Deans List, James Dickinson Carr Scholarship for Academic Merit

Relevant Coursework: Data Structures, Data Science, Engineering Mechanics, Computer Architecture, Principles of Information and Data Management, Cognitive Science, Discrete Structures II, Linear Algebra

## SKILLS

Languages: Java, MatLab, Python, JavaScript, React, Node.js, C, HTML, CSS, SQL; Arabic (Fluent), Urdu/Hindi (Proficient)

Applications: iOS, Windows, Linux, Planisware PPM, Cloud Computing, AutoCAD/SolidWorks, Qlik, Adobe Software, Microsoft Office

Technical: Agile/FPX Project Management, Application Development, Mechanical Design, Data Entry and Analysis

Certifications: Agile Project Management TMT, Lean Six Sigma Yellow Belt

Extracurriculars: American Institute of Aeronautics and Astronautics, Society of Hispanic Professional Engineers, Muslim Public Relations Council, Formula One Racing, Blockchain Hub, Muslim Student Association, Jummah Team, Intramural Basketball and Soccer

## WORK EXPERIENCE

Global Software Engineering Co-op – Johnson & Johnson – New Brunswick, NJ

July 2020 – Current

- Increase EMEA digital strategy by 23% by aiding in the development and end-user testing of “Salesforce (SFDC) Einstein” an email administrative tool which implements AI machine learning algorithms to separate emails based on classification, prioritization, and key words to direct them to an approved CSC within the J&J database, utilizing Java, Django, and Agile/Scrum methodology.
- Documented demand intake processes and front-end development for Salesforce, Genesys, and J&JCC applications, and developed a GDEx digital portfolio framework to socialize project developments with CX leaders and key stakeholders weekly.
- Adapt over 2,000GB of CSC location information received from global regions into constructed data files and tested data uploads and importations through the CURVE database Intelec QA Environment.
- Coordinate with regional representatives to globally lead CS Week 2020, implementing FPX methodology to create communication plans and materials for worldwide use by over 130,000 employees with regional leads and multiple J&J executive board members.

Lead Undergraduate Researcher - Rutgers School of Engineering - Piscataway, NJ

June 2019 – September 2019

- Minimized development time by over 30% by automating routine tasks, and fundamentally improved team workflow through reusable software design.
- Implemented a Python program on a Raspberry Pi 3 for overall control systems and reduced build cost by over 50% by eliminating reliance on expensive underwater hardware.
- Increased navigational efficiency by feeding real-time sensor data into a feedback control loop to adjust for changing conditions.
- Completed 80% of all planned drone control functions by developing and operating with multiple Java and Python platforms to design different drone functionalities and presented a full report at the annual Aresty Research Conference.

Desktop Support Technician - Rutgers Office of Information Technology - New Brunswick, NJ

September 2018 – December 2018

- Provided technical support and services to over 15,000 students on campus daily while maintaining all software and hardware systems and applications.
- Coordinated with supervisors to improve user experience by proactively troubleshooting technical issues.

## PROJECTS

IMDb Score Prediction – Python, JavaScript

- Implements data mining and machine learning to create a prediction algorithm that scrapes user scores and data off of IMDb.com to calculate the IMDb score of a movie.

Rutgers Auto Course Sniper – Node.js, AWS EC2, HTML

- Uses a headless chrome browser to scrape class information off the Rutgers Schedule of Classes, and by providing user credentials, automatically registers for the classes through the Rutgers Web Registration System (WebReg).

## LEADERSHIP EXPERIENCE AND AFFILIATIONS

Vice President - Rutgers Muslim Student Association

September 2019 – Current

- Lead a team of students in managing events, social media pages, and mentorship programs to help create career and research opportunities within a student's desired major.
- Organize three Alumni-based career panels over the school year with over 100 alumni attendees in which over 300 students have an opportunity to network with successful industry professionals.

Technology Head: Infrastructure - Rutgers American Institute of Aeronautics and Astronautics (AIAA)

September 2018 – Current

- Oversee team of 12 to ensure software development efficiency of vehicles and controls, utilizing Python, Assembly and C/C++.
- Responsible for overall club materials and applying a \$5500 team budget for inventory, tools and resources to maintain infrastructure and development needs and quotas.