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# Mehvish Ali

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- OBJECTIVE:** To obtain an internship within the companies involved and accumulate experience while enhancing existing knowledge, with an interest in computer engineering, project management, information systems, and data analysis. Able to collaborate in team efforts and willing to learn.
- EDUCATION:** **New Jersey Institute of Technology (NJIT), Newark, NJ**  
B.S., **Computer Engineering**, Expected Graduation: Spring 2020  
**MINOR: Applied Mathematics; Business; Communications; Computer Science**
- KEY & ASSOCIATED COURSES:** Geometry I; Algebra II; Pre-Calculus; **Engineering Calculus I & II; Differential Equations; Calculus III-B; Probability & Statistics; Discrete Analysis for Computer Engineers; Linear Algebra; Mathematics of Finance I**
- Science, Technology, and Society; Engineering Ethics; Introduction to Forensic Science**
- Macroeconomics; **Principles of Business and Management; Intro to Management Information Systems;** Principles of Marketing; Principles of Financial Accounting; **Introduction to Corporate Finance I**
- Computer Applications I & II: Microsoft Office Software; Introduction to Computer Science I & II: AppInventor, Python, & Java;** Introduction to Computer Science I: MATLAB; **Introduction to Computer Science I & II: C++; Programming Language Concepts; Principles of Operating Systems; Introduction to Database Systems; Fundamentals of Network Security**
- Fundamentals of Engineering and Design I; Introduction to Electrical and Computer Engineering; Circuits and Systems I & II; Digital Design & Introduction to Microprocessors; Computer Architecture and Organization; Electronic Circuits I; Electrical Engineering Lab I & II; Signal Transmissions & Microprocessors Lab; Digital Data Communications; Computer Communication Networks & Lab; Digital Systems; Wireless Communication Networks**
- COMPUTER SKILLS:**
- **Proficient In:** Microsoft Office 2007 (MOS Certified: Word / Docs, Excel / Sheets, PowerPoint), Windows 7/8/10
  - **Working Knowledge:** MIT App Inventor I & II, Java (BlueJ), MATLAB, C++ (Visual Studios, Vocareum), MySQL, Codecademy: HTML4 & CSS, Python; 3D Modeling: Blender & Creo Parametric & 3D Printing: Ultimaker 2+ & 3 (Cura); Blockchain Business Applications: IBM Blockchain + Design Thinking & Hyperledger Composer; ECE: Arduino: Adafruit Metro & Genuino Uno, KEIL FRDM Microprocessor & KEIL ARM Assembly Language; Digital Design: Corel DRAWS & Rayet CO2 Laser Printers, Krita, Art Studio Lite (Mobile); Game Engines / VR Development: Unity 3.11+, RPG Maker MV
  - **Familiar:** Codecademy: jQuery, PHP + Python, Ruby, JavaScript; MAC OS X, HTML5 & CSS, GIT & Bootstrap; Photoshop, Art Studio Lite
- LANGUAGES SKILLS:**
- Proficient In: American English, Urdu, Punjabi
  - Working Knowledge: British English, Spanish
  - Familiar: Mandarin Chinese, Japanese
- PROJECTS:**
- Developed numerous art projects as a hobby: paintings, terrariums, clay figurines, sketches + writings, papier-mâché, mural tiles, soap carvings, 3D models, etc.
  - Devised a code for a fan website using HTML and CSS. **Currently implementing a multimedia database website of projects for archival purposes.**
  - Composed several journal articles for a school newspaper. Scripted numerous incomplete plays for videography.
  - **Built a Library Database System with a separate crew.**
  - Demonstrated usage of Pivot Tables in Business Applications.
  - **Helped design and debug KEIL ARM assembly instructions for microprocessor chip with a separate team.**
  - **Worked with “The Spartan Dev Team” to encourage voter participation during election season via a fun and factual Android app for NJIT Hackathon 2018.**
  - **Pre-designed a semi-animatronic data-collecting drone and a robotic mood music player; developed the prototypes for an analog clock and rotating paperweight with NJIT AddLabs using 3D-Modeling and Printing software, alongside Arduino, during their Winter Break Workshop 2019.**
  - **Worked with “In My Feelings” team to improve information distribution as regards pregnancy and post-partum situations via the designing of a mobile app for the NJII Maternal Mortality & Morbidity Code-a-thon 2019. Later presented to a panelist of specialists in the healthcare field for judging.**
  - **Helped develop the graphics, level design, and code for a 3D Virtual Reality shooter game (Polygon VR) for the Oculus using Unity. Currently practicing capabilities of software. Game won Best XR Award at NJIT’s Game EXPO.**
  - **Created a working state machine circuit with switches and buttons via KEIL ARM and the KEIL FRDM microprocessor board for Microprocessors Lab.**
  - **Helped build a machine learning model alongside a team in GirlHacks, 2019 at NJIT for the purposes of categorizing the ripeness of avocados. Once cleaned up, the categorizer can be used to sustain freshness and limit losses due to rot or undesirable ripeness.**

- Helped design and build a mental health game for the **Oculus Quest** to act as an alternate reliever of stress and aggression that limits the consequences of such in the real world. Game won **Best Thinking Outside the Box Award** from BNY Mellon at Rutgers' HackRU, Fall 2019 hackathon.
- Currently working on building a **greeter bot** for the **Art Club Discord**. Database of poetry to be used to further develop abilities of bot is pending.
- Designed and developed a miniature **2D Unity** platformer for the **IGDA Spooky Jam, 2019**. Currently focused on cleaning code and setting up item collection.
- Helped build an **image-recognition software** which **controls** a rat in a chaotic **3D Unity** game for **HACK NJIT, 2019**. Currently seeking to improve image recognition and convert commands as user control.
- Currently participating in the **NJIT Makerspace SSBA Advanced Manufacturing and Mechatronics Training Program** to build a machine from scratch.

## WORK

### EXPERIENCE:

#### **Internal Drive Technology (iD Tech) Camps: Kean University Division, Union, NJ**

##### **Instructor: Game2, C++ A&B**

Summer 2019

: Hired by Clay Patterson to instruct incoming campers on a series of courses. Worked with a team of instructors to help set up the Kean University division. Taught Game Design 101 using RPG Maker MV and Photoshop to help students create 8-bit-style PC pixel RPG's. Taught Intro to C++ for students seeking to develop games and apps.

#### **New Jersey Institute of Technology (NJIT): Educational Opportunity Program (EOP), Newark, NJ**

##### **Teacher's Assistant & Tutor**

Summer 2015 – Spring 2019

: Aided students on an academic basis for a variety of prerequisite courses pertaining to the mathematical and linguistic sciences.

#### **Hispanic-American Chamber of Commerce Foundation (HACCF), Newark, NJ**

##### **Graphics Designer & Web Developer**

Spring 2017 – Fall 2017

: Designed and formatted organization website. Fashioned an abundance of informational media for the agency, including event flyers and programs, member invitations and tickets, proposal covers and corporate invites, and planning calendars. Edited blurbs and built upon the rebooted style assigned by another volunteer. Worked on a volunteer basis to complete, enhance, and reboot organization website. Recruited volunteers for after disengagement.

#### **Rosedale Medical, PC, Avenel: Dr. Samina Syed-Naqvi, Avenel, NJ**

##### **Reception Administrative Assistant**

Summer 2017

: Transcribed and electronically recorded patient appointment data. Later began scheduling appointments and handling incoming phone-calls, as well as filing physical patient files in designated storage areas. Developed website for Rosedale Medical and Doctor of Internal Medicine Samina Syed-Naqvi. Currently trained to use MedGen Web Portal through the EHR program.

## PROFESSIONAL AFFILIATIONS:

### *Fall 2014 – Fall 2019*

- Co-Events Coordinator / Collaboration Outreach Setup, Member of Highlander Art Club (HAC)
- Member of Association for Information Systems Club (AIS)
- Member of International; Game Developers' Association (IGDA)
- Fundraising Chair, Events Chair, Member of Habitat For Humanity: Newark Chapter (H4H)
- Member of Muslim Students' Association (MSA)
- Member of Society of Women Engineers (SWE)
- Member of Murray Center for Women in Technology (MCMT)
- Member of Institute of Electronics and Electrical Engineers (IEEE)
- Member of Electrical and Computer Engineer Cohort (ECE)
- Member of Newark College of Engineering Cohort (NCE)
- Educational Opportunity Program (EOP 2014)

## AWARDS & CERTIFICATIONS:

- Microsoft Office Specialist. *Spring 2011.*
- *New Jersey Institute of Technology (NJIT) [ Fall 2014 – Fall 2019 ]*
- Educational Opportunity Program: Certificate of Outstanding Tutorship (EOP). *Fall 2015.*
- Career Development Services: (Re)Build New Jersey Certificate of Volunteer Service (CDS). *Spring 2017-2018.*
- Bloomberg Institute of Technology: Bloomberg Marketing Concepts (BMC). *Fall 2017.*
- Lisa A. Pierce Center for Leadership: Leadership Development Program Award Certificate. *Spring 2018.*
- Institute of Industrial Engineers (IISE): Six Sigma Green Belt Certification. *Fall 2018.*
- IBM Blockchain: Design Thinking Practitioner's Badge (Expert). *Spring 2019.*
- IGDA Game Expo: Best XR Game Project Award: Polygun VR. Team: Alice Woodruff, Omar Ilyas. *Spring 2019.*
- Red Cross Certification: Adult and Pediatric First Aid/CPR/AED. *Spring 2019.*
- IBM Data Science: Design Thinking Practitioner's Badge (Expert). *Summer 2019.*
- MLH HackRU: BNY Mellon Thinking Outside the Box Award. *Fall 2019.*

## HOBBIES/ INTERESTS:

Designing websites and constructing computer code; journalism and fictional storytelling; medical and psychological research; sketching anatomy and designs both real and illusory; participating in volunteer work; developing skills in arts and crafts; sharing and providing knowledge via teaching; etc. Playing around with Do-It-Yourself Crafts and Projects in electricity, clay, sewing, etc. Designing 3D levels and platforms for game design. Fiddling with 3D modeling software and laser engraving. Playing around with tablets and pens for the purposes of digital design.