NABIHA RAZA

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OBJECTIVE
Looking for internship and co-op opportunities for Summer 2020

EDUCATION

Rochester Institute of Technology, Rochester
M.S., Computer Science   *Expected 2020*
National University of Science & Technology, Islamabad
B.E., Software Engineering   *Sept 11 - June 15*

PROFESSIONAL EXPERIENCE

Hewlett Packard Enterprise – Aruba Networks (*Software Engineering Intern)***   *May 19- Dec 19*
- Design, code, and test networking applications in Python for next-gen campus Network Operating System (NOS) using Apache Spark as an ETL tool with AWS S3 Bucket.
- Developed Aruba tests automation tool in Python using Flask framework
- Hands-on on implementing wireless network topology, profiling, ethernet protocols and dynamic segmentation

Graduate Research Assistant, Rochester Institute of Technology   *Oct 18 –Aug 19*
- Working on interdisciplinary domain with U of R Medicine to detect neck flexes using AWS Lambda.
- Developing Ionic 3 and Angular 4 application for Android and IOS to interface with Wearables using BLE.

Udacity *(Classroom Mentor and Project Reviewer)*   *Sept 2018 – May 19*
- Provide mentorship for students in Frontend Web Development and Mobile Web Specialist Nanodegrees.
- Grade students on PWA, service workers, IndexedDB and caching APIs to improve performance.

CRI Group, Islamabad, Pakistan (*Full Stack Developer)***   *Feb 18 – Aug 18*
- Worked on Oracle SOA suite (JDeveloper, Eclipse) and implemented SOA concepts on integration platform.
- Implemented static code scan to fix vulnerabilities in code following NVD guidelines.
- Worked on REST, JSON, XML, XSL, XSLT, XML Parsers and SOAP

Telenor Global Shared Services, Islamabad, Pakistan *(Solution Architect).*   *Nov 15 – Dec 11*
- Developed multiple applications on Java and deployed on Amazon Web Services EC2.
- Worked on shell scripts and python scripts to automate monitoring and deployments.
- Built ARIA compliant customer facing front-end applications on Angular 2 and interfaced using REST

Techaccess Pakistan, Islamabad, Pakistan (*IT Developer Trainee)***   *June 15 – Nov 15*
- Migrated the complete backend from Node JS to Python in a team of 4
- Worked on Back End of Customer Facing Websites in Laravel.

Pakistan Television, Islamabad, Pakistan   *(Networks Intern)*   *June 14 – Aug 14*
Project: Packet Sniffer WLAN – Capture network traffic packets such as UDP, TCP, ICMP using socket module in Python and then parse to analyze different results.
- Router Programming and automating router's configuration using the router's Web interface
- Bug fixes for existing code in python and testing vulnerability tests

TECHNICAL SKILLS:
- **Languages** – C++, Java, Python, Django, PHP, JavaScript ES6, HTML, CSS, SQL, C#, Shell Scripting, ASP.net
- **Frameworks & Tools** – Angular 4, Flask, Git, Ionic 3, Npm, Node JS, Laravel, Android, BLE Wearables, .NET Core

PROJECTS:
- **Sudoku**: GUI based Sudoku application using MVVM (Observable, Mediator, Singleton design patterns) and backtracking to generate 4*4 or 9*9 puzzles with one unique solution. GUI was implemented using WPF in .net 4.7 framework.
- **IMDb Movie Rating Prediction:** Data Modelling and ER Diagram to make sense of the dataset. Created database in MySQL and imported dataset in DB using python script. Cleaned and normalized using MySQL and then performed Data Mining using R programming and applied multiple data mining techniques to predict some interesting facts.

VOLUNTEER WORK:
- **GDG Rochester** – Organizer: Creating a platform for developers by organizing sessions supported by Google.
- **Women Tech Makers Rochester** – Founder: Facilitating Women in Tech by organizing code-labs and meetups.