NABIHA RAZA

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SUMMARY Results-driven graduate software engineer with 6+ years of experience in strategic problem-solving, cloud native application development with an emphasis in distributed systems, networks, cryptography and cloud computing. Proficient in algorithms, design patterns, and analysis of system performance and availability in C++ and Python.

EDUCATION

Rochester Institute of Technology, Rochester, NY, USA
M.S., Computer Science   *Aug 18 – Dec 20*
National University of Science & Technology, Islamabad, Pakistan
B.E., Software Engineering   *Sept 11- June 15*

TECHNICAL SKILLS:

- **Languages** – C++, Java, Python, JavaScript ES6, SQL, C#, Shell Scripting, HTML, CSS
- **Backend** : Python, C++, C# MySQL, MongoDB, RabbitMQ, Sharding/Replica, Distributed System, GFS/HDFS
- **Frontend** : AngularJS, Node.js/ExpressJS, Reactjs, HTML5, CSS3, Bootstrap, AWS
- **Frameworks & Other Tools** – Angular 4, React, Flask, Django, Git, Ionic 3, Npm, Node JS, Laravel, Android, BLE Wearables, .NET Core, Docker, AWS, Google Cloud, Kubernetes, Git/Github/Gitlab, Rally, Jira, Slack, Agile Development, Continuous Integration/Delivery, PostgreSQL, AWS Lambda

PROFESSIONAL EXPERIENCE

Hewlett Packard Enterprise – Aruba Networks (*High Touch Software Engineer*)   *Jan 21- Present*
- Built cloud-native Flask based microservices and React app that automated entire operations workflow of my team, completely replacing Excel sheets, old batch jobs and email-based workflow, reducing the lead time by 80%.
- Wrote build scripts for automated CI/CD that built the artifactory using AWS ECR and deployed the on AWS EKS.

Hewlett Packard Enterprise – Aruba Networks (*High Touch Engineering Intern*)   *May 20 - Aug 20*
- Building a cloud-native Flask application that will automate entire High Touch Services workflow which handles deployment on AWS and testing of Aruba Products, is expected to drop operational and licenses costs by approx. 60%.

Hewlett Packard Enterprise – Aruba Networks (*HTE Support 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   *Dec 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.

CRI Group: Corporate Research & Investigations Private Limited, Islamabad, Pakistan
(*Full Stack Web Developer*)   *Feb 18 – July 18*
- Developing web applications in Laravel, PHP and asp.net
- 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
(*IT Officer (Solution Expert Integrations)*)   *Nov 15 – Dec 16*
- 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*
- Worked on front end of customer facing web applications using HTML, CSS and JS
Pakistan Television, Islamabad, Pakistan (*Engineering 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

VOLUNTEER WORK:

- **GDG Rochester** – Organizer: Creating a platform for developers by organizing sessions supported by Google. (https://gdg-rochester.firebaseapp.com/)
- **Women Tech Makers Rochester** – Founder: Facilitating Women in Tech by organizing code-labs and meetups supported by Google.