

Muhammad Moghal

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GitHub: <https://github.com/mmoghal>

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Profile

Seasoned Software Engineer with a focus on Infrastructure Engineering and a passion for innovation. Skilled in full-stack development, networking, cloud computing, and enterprise server and storage platforms. Experienced in architecting and designing robust systems, implementing monitoring and telemetry solutions, and developing high-availability and disaster recovery strategies. Strong communication skills and a commitment to code quality. Thrives in diverse teams and excels at delivering optimized IT environments.

Technical Expertise

API Design: REST, JSON, AJAX (Fetch API), GraphQL

Deployment and Delivery: Heroku, Azure, AWS, Git, GitHub Pages, Shell Scripting, Unit Testing, Linting, Continuous Integration

Databases: MySQL, MongoDB

Server-Side Development: Node.js, Express.js, User Authentication, Template Engines, MERN Stack (MongoDB, Express.js, React.js, Node.js)

Browser-Based Technologies: HTML, CSS, JavaScript, Responsive Design, Progressive Web Applications (PWAs), Bootstrap, Local Storage, Session Storage, IndexedDB, React.js, jQuery

Computer Science Applied to JavaScript: Algorithms (Searches, Sorts), Performance, Time Complexity, Big O Notation, Data Structures

Enterprise Server, Storage & Virtualization: NetApp FAS, AFF, Azure Files; EMC XtremIO, VNX, Isilon; Pure Storage FA-X20R3, FA-m50r2, FA-X70R2; HA & DR Solutions (RecoverPoint, VPLEX, SnapMirror, SnapVault, ActiveCluster); VMware vSphere, Horizon View VDI, SRM, Citrix; Server Hardware, Converged Infrastructure, Cisco UCS, HPE BladeSystem, Dell Servers; SAN Switches (Cisco, Brocade), Azure Cloud Computing, Windows Desktop, Servers, Linux/Unix OS

Backup Technologies: Dell EMC Data Domain, Avamar, Cohesity

Experience

Bloomberg L.P

2012 - Present

Senior Software Engineer, Infrastructure Engineering

- Architected and designed robust systems, implemented monitoring and telemetry solutions, and developed high-availability and disaster recovery strategies.
- Collaborated with diverse teams to optimize IT environments and deliver efficient solutions.
- Implemented API designs using REST, JSON, AJAX, and GraphQL for seamless communication between systems.
- Deployed applications and managed delivery using platforms such as Heroku, Azure, and AWS.
- Utilized databases like MySQL and MongoDB for efficient data storage and retrieval.
- Developed server-side applications using Node.js, Express.js, and integrated user authentication and template engines for dynamic web applications.
- Created browser-based applications using HTML, CSS, JavaScript, and front-end frameworks like React.js and Bootstrap.
- Applied computer science principles to optimize algorithms, performance, and data structures.
- Managed enterprise server, storage, and virtualization platforms, including NetApp, EMC, Pure Storage, VMware vSphere, and Cisco UCS.
- Leveraged Azure cloud computing for scalable and flexible solutions.
- Implemented backup technologies for data protection and recovery.

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- Ensured seamless operation of Windows and Linux/Unix environments.

Education

- Rutgers University – Coding Boot camp 2023
- Ryerson University (2009-2010) - Information Technology Management Degree Courses
- Global Knowledge (2006-2007) - Red Hat Enterprise Linux, SQL Server Administration, Microsoft Windows MCSE Boot Camp, Essentials of Information Security - Security+
- Sheridan College (2006-2007) - Systems Administration Linux/UNIX-OS, Cisco - CCNA, A+, Microsoft Windows MCSE
- Centennial College (2004-2005) - Call Center Management Certificate, Computer System and Network Technology
- CDI College of Business & Technology (2003-2004) - Network Administrator Diploma, Specialized in Network Administrator for Windows, UNIX/Linux, and Computer Networking
- York University - BSc Computer Science Courses
- Hamdard Institute of Management Science - MBA Certificate Courses
- SZABIST Institute of Science & Technology - Computer Certificate
- ORASOFT Training Institute - Computer Diploma

Professional Certification and Training

- Microsoft Azure Architect Technologies AZ-303
- Microsoft Azure Administrator AZ-104
- Microsoft Azure Fundamentals AZ-900
- NetApp Certified Data Administrator, ONTAP
- VMware Data Center Virtualization VCP
- CyberArk Certified Trustee
- SANS Security Essentials
- OpenStack MCA200
- VMAX & PowerPath Fundamentals
- Zoning Best Practices
- SAN Management
- Isilon Administration
- VNX Install, Configure, and Management
- NAS Implementation, Install, Configure, and Management
- VPLEX Operation & Management
- Clariion Implementation, Install, Configure, and Management
- vSphere Install, Configure, and Manage
- VMware vSphere: Fast Track
- VMware Horizon 7: Install, Configure, Manage
- VMware View and SRM Install, Configure, and Manage
- VMware vCloud Director Architecting Your Cloud
- Microsoft SQL Server for Administration
- Red Hat Automation with Ansible
- Red Hat OpenStack Administration I
- Red Hat OpenStack Administration II
- Automation with Ansible II: Ansible Tower
- IT Project Management