Mickey Akhter

(U.S. Citizen)

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# PROFILE

Looking for a Technical position in the Development, Implementation and Management of Cloud Solutions

# WORK EXPERIENCE

**ECOM Atlantic, Inc.** 13760 Noel Rd STE 500, Dallas TX 75240

**Sr. Lead Cloud Architect** May 2023 – August 2023

* Managed all data and API integrations for Three Rivers warehouse / inventory management tool and CargoWise
* Designing DevOps policies / procedures – Azure DevOps / Terraform / Ansible and PowerShell Scripts
* Created alerting systems, live dashboards for system operations and log management
* Added automated test cases using Playwright, Cucumber, Jest/Jasmine and managed Test team

**CACI International,** 14370 Newbrook Drive, Chantilly VA 20151

**Senior DevOps Engineer T3** August 2022 – February 2023

* Built C# batch jobs, ASP.NET web services, and transformers to migrate and integrate data between different ERP Business Objects for DFARS-certified government systems (Infor LN, Salesforce, ARENA PLM, iValua P2P).
* Setup Azure DevOps pipelines to deploy Dev/Test and Production servers with the first external OAuth API endpoint.
* Implemented security controls with Service Accounts running on AD groups and Access Controls.

**Iron Mountain,** 4117 Pinnacle Point Dr., Dallas TX 75211

**Software Development Lead** November 2020 – June 2022

* Developed an AWS ECS with Docker and Machine Learning (AWS Textract) to create a scalable OCR solution to reconstruct damaged scanned documents with Kofak Capture
* Managed a development team abroad with Scrum Agile methodology and tools including JIRA and Monday.com
* Implemented a CI/CD pipeline with CodeDeploy and Elastic Beanstalk of increased web traffic or production load

**Capital One Bank,** 1680 Capital One Drive, McLean VA 22102

**Senior Cloud DevOps Engineer** May 2018 – March 2020

* Directed complete AWS Cloud development of serverless web APIs for internal business operations to detect fraud with AWS S3 / RDS / Lambda / API Gateway / Route 53 / DynamoDB / CodeDeploy / Redshift
* Assisted development and code reviews of large C# .NET applications in Blazor with Angular front-ends
* Developed AI-based scanners to work with Financial Technical Data (Stock & Option bid-ask prices, volume, L2 data) to find opportunities with low risk spreads and general uptrend.

**Virgil Security,** 2214 Rock Hill Road, Suite 600, Herndon VA 20170

**Junior .NET Developer / Product Manager** February 2017 – May 2018

* Full Development of IoT encryption key management service API using Azure Web Apps (DocumentDB, CosmosDB, Functions) and agile team management with Azure DevOps / TFS.

**Warden Systems,** 101-E Executive Dr., Sterling VA 20166

**B2B Cloud Architect / SecDevOps Engineer** May 2012 – May 2015

* Lead team of 5 people using JIRA/Slack on-site on critical tasks and dealt with both C-level management and clients
* Architected and Migrated Security Management solutions for many Government and Small Business clients
* Agile Development of cloud-based IaaS/PaaS solutions in Team Foundation Server (TFS) to collect events in SQL databases
* Frontend (HTML5, CSS3, AngularJS/JQuery) and Backend (NodeJS, PHP, ASP.NET, Python, Java, Ruby) Full-stack Agile Scrum Developer using repositories in GIT, Subversion and TFS and package managers (NuGET, Sonatype Nexus, NPM)
* Extensive use of Unix Shell/Bash/Powershell scripts and running crontabs
* Improved Relational Database & Data Warehousing solutions with advanced MS SQL, MySQL, AWS RDS, Redshift
* Scripted Automated Deployments with CloudFormation/Terraform/Vagrant/Elastic Beanstalk, Setup and Configuration with Chef/Puppet/Ansible/Powershell/Orchestrator and Automated Tests with Jenkins/Python/Selenium Webdriver
* Built CI/CD (Continuous Integration / Continuous Deployment) Pipelines using Docker containers

# EDUCATION

**MS Computer Engineering GPA: 3.37**

**George Mason University, Fairfax VA** December, 2012

DARPA SCATEboard – Side-Channel Attack Test Evaluation Board

* Developed VHDL code to simulate Crypto-Processors on embedded FPGA devices.
* Developed VHDL code for attacker FPGA device to mount chosen plain-text and cipher-text attacks.
* Developed C# software to perform Side-Channel Cryptanalysis to reverse engineer cryptographic keys.
* Developed CLI and GUI for SCATEboard to interface with FPGA devices.
* Advanced algorithms using Neural Networks to predict cryptographic algorithm used in device.
* Designed Combined Side-Channel Attack to successfully crack modified/salted cryptographic algorithms.
* Designed API for SCATEboard for open-source community development.

Scholarly Paper: Biometric Encryption Systems – The Future of Biometrics

Researched the development of Biometric Encryption Systems. Developed MATLAB and C# code to recognize human voice and use it to encrypt/decrypt a cryptographic key.

**BS Electrical Engineering GPA: 3.51**

**George Mason University, Fairfax VA** May, 2011

Senior Design: Omnidirectional Tele-presence Robot with Arm using C#

Principal software developer and integrator on a five-person team. Developed an algorithm for triangular omnidirectional motion and control of 5-axis servo-based robotic arm. Designed server/client software using TCP sockets in C# to send controls from server to microcontroller. Software worked with RTP and RTSP, with audio/video compression algorithms and maximize throughput during channel hand-off. Wrote a Human Interface Driver (HID) program to simulate joystick attached to robot. Software supports integration of Wi-fi to 900MHz HAM frequencies using directional Yagi antenna. Used Arduino mega microcontroller to interface with hardware H-bridges and battery. GUI Development for secure remote-control access to robot.

# ORGANIZATIONAL EXPERIENCE

**Founder and President of GMU ECHO (Electrical & Computer Hacking Organization)**

March 2010 – February 2012

* Managed most Events and Funding for ECHO
* Competing in Hackathons, CTF competitions, Coding Competitions, Blue team defense competitions

# SKILLS / QUALIFICATIONS

**CERTIFICATIONS:**

*ScrumAlliance* - CSPO

*CompTIA* - Security+, Project+, CASP

*ECCouncil* - CEH, CHFI

*AWS* – DevOps/Architect Pro

*Microsoft* – MCSD / MCSE

*Cisco* – CCNA, CCNP (expired)

*(ISC)2* - CISSP

*Exin* - ITILv3

*GIAC* - GCFE

**Computer Languages:** C, Objective C, **C#.NET** **(most proficient)**, C++, JAVA, ASM, Perl, Ruby, Python

**Operating Systems:** Windows (RT/Win32/CE), Linux, Unix, Android, VxWorks – Intel x86/64 & ARM

**Software Applications:**

MS Azure Suite (Web Apps Service, Service Fabric, Service Bus, Media Services, HDInsight, App Insight, Active Directory, Key Vault, SQL database, Redis Cache, Load Balancer, ExpressRoute, Xamarin, Website Migration Assistant), MS System Center (SCOM, SCORCH, SCCM), MS Office/Project/Visio, Snort, Nmap, Visual Studio Ultimate & TFS, MS Sharepoint, AWS (EC2, S3, EBS/EFS, EMR, CodeDeploy, X-Ray), Cadance Orcad Suite (Pspice / PCB editor), Playwright, Jest, Jasmine Automated Testing

**Relevant Courses:**

Operating Systems, DSP Hardware Architecture Design, Advanced Microprocessor Architecture, Secure Programming and Systems, VLSI Design for ASICs, System Security for Federal IT, Real-Time Embedded Systems, Sequential Machine Theory, Mobile Robotics Navigation Control and Sensing, Cryptography and Computer Network Security, Introduction to Optical Electronics.

**Hackathon Projects:**

Care o’line Service – 2nd Place winner in Health Hack DC Hackathon

* Full Development of Texting/Emailing Service that helps People keep in touch with Walks and Drives in their areas for causes they care about. Programmed in 6 hours.

MindScape WP7 App – Student winner in Nokia’s Ready.Set(){Code} Challenge

* Full Development of Windows Phone App that helps parents find after-school activities for their kids. Programmed in 6 hours.

CapitaList WP7 App – 2nd Place winner in DCWEEK Hackathon

* Windows Phone App that lists Grants/Loans, Licenses & Permits for Aspiring Entrepreneurs. Also provides browsing of Government Contracts (FBO, Grants.gov, SBIR) and Proposals as well as support websites. Programmed in a weekend.