

Rafat Khandaker

Email: Rafat.Khandaker@gmail.com

Cell Phone: (646)-269-9212

Residence: Hastings, MI 49058

Status: U.S Citizen

SUMMARY

7 years Professional IT & 5 years of Software Development experience focused Cyber Security knowledge to better apply myself in continuous integration with high EOLP. Specialized in bringing secure architecture & best practice to IoT Web/Mobile Development. Skilled in analyzing, designing & developing Web, Microsoft (Client/Server) Windows based, Linux Based & Cloud Based Applications. Experienced in N-Tier Style design pattern, MVC, MVVM & Microservice Architecture. Knowledge & experience in integrated IoT cloud services which includes Mobile Application Development in Android & IVR Systems in Avaya. Release process, handling both manual & automated deployment. Experienced in modern development life cycle & project management. I also possess knowledge in applied science & mathematics to integrate & model machine learning problems with mat-lab. Has lab experience, working with Quantum computer & simulators using Q#, IBM: QASM. Modern technology stack in C#, Java, Core-Python, Java-script, Typescript & Angular. Query Language in T-SQL, PL-SQL. Scripting languages in Power-shell & Unix-Shell. I would like to potentially experience the world of Data-Science and/or Quantum Computing, as I would like to further my education goals in those areas.

TRAINING & COURSES

A+, Network+, Cloud+, Security+, Linux+, (CCENT, CCNA, CCNP, CCIE-Security), (MSCA, MSCE), ITIL, CEH, (SCCP, CISSP), (CAPM CPPM) (Certified Project Management)

PLURAL SIGHT

Core-Python Fundamentals, Apache-Kafka, Spring Boot Development, Python Automation for Pen-testing, Scala Core Fundamentals, OWASP Top 10: API-Security Playbook, Marketing Services & Products

TECHNICAL COMPETENCIES

<u>Machine Learning</u>	Mat-lab simulation complex mathematical modeling Python & Scala Core Language Data-Science Knowledge & Statistical Analysis Optimization problems
<u>Quantum Computing</u>	Q#, IBM: QASM Simulator Knowledge of Quantum Logic Gate operators Modeling Quantum Algorithms & Mathematical Representation of Quantum Logic
<u>Front End</u>	HTML5, CSS3, Java-script (ES5, ES6, ES7), jQuery, Angular JS, Angular (2, 4, 6, 8, 9, 10) & Typescript, Vue JS
<u>.NET Core Technologies</u>	C#, ASP.NET, ASP.NET MVC 4, ADO.NET, Entity Framework, Lin-Q, WCF, WPF, Web Services, Oath2 data, OData Web API, Unity Framework, Reporting Tools Visual Studio Report Designer (SSRS), SQL Packages (SSIS)

<u>Java Core Technologies</u>	Core Java (1.5, 7, 8, 9, 10, 11), JSP, Spring, Hibernate, Security, Flyway, Tomcat, Maven, Gradle, Groovy
<u>Database</u>	SQL Server 2008- 2016, MongoDB, Oracle DB (T-SQL) & (PL-SQL)
<u>Android Technologies</u>	Marshmallow (6.0), Nougat (7.0), SQLite, Gradle, JSON, HTTP Callbacks, POJOS, UI Navigation, Android Lifecycle.
<u>IVR Technologies</u>	Avaya Orchestration Designer (Eclipse Extension) Java based
<u>Source Version Control</u>	Team Foundation Server (Microsoft TFS), Bit Bucket, Git Hub
<u>Project Management Tools</u>	Jira, Trello board, TFS, Microsoft Project
<u>DevOps tools:</u>	Jenkins Automation deployment tool, Microsoft Azure Dev Ops, Team-city with Octopus Deploy, Docker (cloud - containers), Kubernetes

WORK HISTORY

Nexient & NTT Data Co. - Sr. Software Engineer 1 – Front End JavaScript Developer | 05/22 - 02/23 | Remote

William Sonoma Inc: Client Project (3 months)

Sr. Software Engineer in an Agile team for delivery management. Developed business application in angular 10, using vanilla JS and reactive components/ routing / routing parameters, re-usable forms and templates with dynamic interoperability with back-end HTTP client functionality. Back-end API project integrated with Swagger documentation. Involved in client project developed in Vue JS / Spring MVC with 30/70 split between front-end to back-end development work on large scale front-end microservices applications.

- ◆ Developed Proxy routing on Front-End Microservices project in Vue JS, using Node JS and handling routing via proxy calls to localize and parameterize ecommerce platform for US and Canada regions while migrating resources into new microservices project.
- ◆ Developed projects using Agile and TDD in front end java script projects, unit testing libraries etc.
- ◆ Developed on Back-End Spring MVC project to handle multiple content-blocks published by Adobe Illustrator as promotions for ecommerce banners and advertisements.
- ◆ Developed Spring MVC with both Integrated testing and Unit testing using Bedrock API testing, sonar cube code coverage and automated deployment with GitHub and Jenkins.

Dell: Client Project (3 months)

Sr. Software architectural analysis and design improvement for performance using analysis tools and documentation as a part of Dell's SWAT extension team on large scale micro-services .NET architecture and design services. Angular front-end microservices scalability analysis.

- ◆ Developed strategy and documentation for performance enhancement in Front End UI.
- ◆ Documented analysis using chrome debugger tools for UI performance and justification documents for architectural changes.
- ◆ Developed Strategies and solutions using documented references based on analysis and justifications.

- ◆ Test flow of application and documented analysis using step by step procedure and recommended changes for page-by-page enhancements.

YOH, A DAY & Zimmermann Company - Contract

- **LPL Financial** - Sr. Software Engineer – Tech Lead – Data Operations & Services | 03/21 - 12/21| Remote

Tech Lead for large project within a financial firm. My goal is to provide clients with a stable platform and continuous feature release while stabilizing technological assets in SQL and migration into new Angular, Dot Net technologies. Project involves SQL Migration, API Migration, Angular Migration within Asset Tracking application with workflows involving back-office users.

SQL Migration Project:

- ◆ Documented decoupling stored Procedures strategy and decoupling SQL instance for scalability.
- ◆ Decoupling nested stored procedural logic and architect design with Apache Kafka for sql migration.
- ◆ Discuss SSIS package strategy for managing data amongst SQL database instance and maintaining consistent data.
- ◆ Work with Microsoft SQL experts to strategize changes with query performance tuning and optimizing solutions.
- ◆ Managed and lead strategy team with offshore developers.

Front End Project:

- ◆ Developed security authentication flow to unlock front end projects to key developers, admins and back-office users. Allowing application access to members of active directory grouping.
- ◆ Developed key tables for Op users, allowing CRUD operations effect with API endpoint technologies.
- ◆ Managed front end team of 4 developers to allow fluid transitions and UI designing.

Middle Ware Project:

- ◆ 80% of Tibco EMS services have migrated into Dot Net Core microservices.
- ◆ Integrated .NET 5 and .NET core projects with DevOps scripts and pipelines with Git-Hub, Team city and Octopus deploy.
- ◆ Developed documentation between Tibco EMS service and Dot Net Core microservice to maintain parallelism of logic and deployment strategy.
- ◆ Integrated Unit Testing methodologies to secure logic consistency with Dot Net Core microservices with automated deployment testing scripts.

Insight Global - Contract

- **BANK OF AMERICA** - Sr. Software Engineer - Global Finance & Taxation | 10/19 - 05/20| Exchange Pl, NJ

Front End & Core Engineer for Financial Interface Gateway, internal hybrid cloud service. Developer responsible for Migrating legacy service into new Angular 8 & Dot Net Core, utilizing Entity-Framework with Oracle DB. Engaged in Team building Process, Continuous development & integration of tasks into deployment environments. Stabilized team project as lead to encourage junior developers to maintain structural pattern & changes. Developed streamline & re-usable functionality & pattern to accelerate development of service. Engaged in Support team to track internal audits & documentation & application failures in large Serviced Oriented Structural services.

Service Oriented Project:

- ◆ Self-management of project & tasks utilizing Confluence & Jira Board to organize & track activity, using Bit Bucket for check-in tasks.
- ◆ Self-management of project & tasks utilizing Confluence & Jira Board to organize & track activity, using Bit Bucket for check-in tasks.
- ◆ Developed a common use factory and classes in dot-net to handle connection to Oracle DB, support for .NET logger for auditing and tracking application failure in live environments.
- ◆ Management of logging and audit controls to track requests and files being transferred and audited into Oracle Cloud Services.
- ◆ Integrated & migrated old WSDL Web Services into modern Web – API services.
- ◆ Implemented strong practices of tactical and component style design pattern in development.
- ◆ Supported continuous deployment schedule of project tasks into live testing environments, supported migrating process from Waterfall to Scrum methodologies.
- ◆ Adhere to strong Security framework & policies with internal bank compliance in development and communication between cross platform teams for support.
- ◆ Supported development practices in Typescript, supporting Angular 8 application for Front end development.
- ◆ Completed multiple Angular pages with dynamic UI challenges while implementing the best development strategies between Front-End and backend communication of data.
- ◆ Strong UI understanding of re-usable component style, integrating security to UI, with strong debugging talent utilizing chrome.
- ◆ Developed UI support for ADA compliance in Front-End Angular 8 applications and legacy WCF applications.

➤ **VIACOM** - Media Content Developer - MTVN & Paramount pictures | 08/18 - 10/19 | NY, NY

Full stacks engineer, supporting a large integrated project as a media content developer (over 2.5 million lines of code). Technology is used to deliver quality media streaming as a content provider to vast media providers world-wide: including BET, MTV, MTV2, Nickelodeon, Comedy Central, CMT, Bellator & Paramount Pictures.

Micro services style component driven architecture:

- ◆ Using concepts of MVVM modeling using Angular 6 & 7 with Typescript & Knockout JS
- ◆ Strong C# Core API development using MVC.
- ◆ Integrating Basic Authentication tokens & for SSO authentication and API Security
- ◆ Sequel Workflow Development: (Stored procedures, User Definition Functions, Triggers)
- ◆ Windows services development.
- ◆ Deployment in Jenkins, integrated with cloud infrastructure: Microsoft Azure DevOps environment
- ◆ Source Control in Git Stash with Jira Project Management.

Strong Security development practices including:

- ◆ SSO authentication & integration to AD-DS LDAP (IDAAS) service
- ◆ Dual Factor Authentication Service
- ◆ Robust Application Design
- ◆ Workflow failure auditing and tracking
- ◆ Application Error Logging
- ◆ Integrated Domain Group Policy Object in development
- ◆ Layering muti-level authentication process and access into resources

- ◆ Permission based Workflow Escalation and parallel development with Core Business functionality

SUMMIT WORKS - Full Stacks Dot Net Developer | 05 /18 - 08/18| South Plainfield, NJ

Completed 4 Projects, developing application for small business owners to sell products & keep inventory count. Developed application for internal business "sales management." Developed Application for Internal business "Job Search & Placement."

- ◆ Committed to completing 4 projects using versatile technologies in .NET, including legacy applications in ASP.NET WCF, create designing database architecture, stored procedure queries, T-SQL, implemented coding in C#, VB, Designed Pagination, Grid-View control, Filtering, Sorting, Repeaters.
- ◆ MVC project using ADO.NET, Entity Framework, LINQ, Ajax calls between table queries, rebinding & appending tables with search bar. Developing pages, binding models to view with HTML helper, Bundle Configuration between key JavaScript files, using Render script tags in layout page for best practice. Configuration of Unity 3 for dependency injection and project long term maintenance.
- ◆ Developed Projects in Building Back-end API service, Using Entity-Framework, ADO.NET project. Build Libraries, factories, email service, login service, Business Flow tasks. Built Front-End project using Html5 pages, Bootstrap, CSS3, AngularJS for callbacks between pages, data-bind models (1 way & 2 way), Page routing with layout page and View tag directives.
- ◆ Developed Application project using Angular 2, Node JS, Node express & MongoDB.

COMCAST - Application Developer | 06/17 - 03/18 | Atlanta, GA

Developed applications for Business Intelligence using remedy web service, developed Surveys & SSRS reports. Developed IVR call flow system, connecting to back-end API service & SSRS reports for app effectiveness. Developed Admin pages for existing applications connecting to LDAP services & Windows login. Maintenance tickets for normal application bug-fixes, SSIS package fixes, etc.

- ◆ Developed Comcast NPS survey and NPS Survey reports for supervisor/regional managers to track internal performance review of IT Support team, integrating SAMS-Remedy service and review for resolved tickets.
- ◆ Maintain strong coding talent & implement best practices in security & tactical designing, logical architecture & modeling. Keeping clean working canvas with source-control.
- ◆ Daily Organization, Event Planning, participate in meetings & conference calls with various Comcast branches for developing projects.
- ◆ Developed & supported applications for clients throughout Comcast Intra-Network to enhance business relations, productivity & consumer support.
- ◆ Enhanced application user interface, using JavaScript libraries & enhanced efficiency of data process between client-server communication.
- ◆ Support server-side applications for members of IT administration to enhance productivity within client-side technology sector.
- ◆ Deployment and project management tools, using Microsoft TFS (Team Foundation Server
- ◆ Supporting server-side technologies, load-balancing, IIS server configuration, web-farms architecture & Microsoft Server Management 2003, 2008, 2012, 2014 & 2016
- ◆ Supported Java Web Applications using JSP Servlets, Spring (boot, MVC, Hibernate, Security, Mongo, Thym-leaf), used builds in both Maven & Gradle with Groovy. Resolved Dependencies with both Maven & Gradle. Deployed & tested applications in Tomcat server 7.0 / 8.0 /8.5 & 9.0
- ◆ Supported Tomcat Servers with Mutual Authentication between Tomcat & IIS Servers using SSL certificates, extraction & tested with Chrome debugger & fiddler

Received Mentorship from Professional Senior Software developers in Project management

- ♦ Worked on Java & Android development projects using Trello-Board, Git, SDK & IntelliJ. • Developed Java & Android applications using Web Hooks; HTTP callbacks & API implementation; • View Model structure & interaction; recursive functions & developing creative, clean coding
- ♦ Competed in the program with JavaScript & Core Java algorithmic challenges.
- ♦ Entered competition Android development Hackathons, developed Android Applications in API marshmallow (6.0) & Nougat (7.0) using UI navigation, Widgets, Layouts, API Callbacks, Fragments, Views, Horizontal & Vertical Recycler Views, Menu bars, animation integration, SQLite, Android Lifecycle, Drawer layout, Async-Tasks, Multi-Thread Handling, Child-Thread Handling, Serialization, Notification Service. libraries: Cupboard, Butterknife, Retrofit.

PERSONAL PROJECTS

Hydra blend Technologies LLC – Free Lance Business Owner | 07/2017 - Present | New York City, NY

Personal project in development, utilizing my knowledge in project management development & implementation of technological assets with my small personal budget.

EDUCATION HISTORY

UNIVERSITY

John Hopkins University

2021 - present

M.S Computational Science with focus in Cyber Security

Currently Attending

ECPI University

2018 - 2020

B.S Cyber Network Security & Cloud Computing

Graduated May 2020

Graduated with Honours (CUM -LAUDE) & Accredited by Department of Defense & NSA

ECPI University

2012 - 2014

A.S Computer Electronics Engineering

Graduated June 2014

NANO-DEGREE PROGERAM

Massachusetts Institute of Technology - MITx Pro

09/2020 - 12/2020

- ♦ Machine Learning Modeling & Simulation
- ♦ Applied Machine Learning Engineering Science
- ♦ Engineering Problem Solving, Age of AI

Completed 10/26/2020

Completed 12/14/2020

Completed 12/14/2020

Massachusetts Institute of Technology - MITx Pro

09/2020 - 12/2020

- ♦ Introduction to Quantum Computing
- ♦ Quantum Computing Fundamentals
- ♦ Applied Quantum Algorithms in Cyber Security

Completed 11/06/2020

Completed 12/06/2020

Completed 12/06/2020

CERTIFICATION

NYBI of Technology

Training Completed: (A+, Network+, Security+, CCNA)

2014 - 2015

VOLUNTEER EXPERIENCE

United States Naval Recruitment Center Brooklyn, NY / Dep CO / 08/11 - 02/12

- Tutored high-school students to prepare for ASVAB exams at MEPS.

SUNY Polytech Institute Utica, NY / Math & Science Tutor | 08/10 - 05/11

- Tutored: Calculus (1,2,3), Differential Equations, Differential based Linear circuits,
- Calculus based physics (1 & 2), Statistics & Applied Mathematics.

****Capable of adapting to any & all technologies****