Abdul Khaliq Zaheer

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*Objective:* Pursue employment as an application architect, with a focus on design best-practices and architectural elegance

**SKILLS**

Languages:C#, LINQ, TypeScript, SQL, Java, Javascript, HTML, CSS, XPath, JSONPath, Ruby, C

Tools:ELK, Chef, Jenkins, Openshift, Docker, Powershell, JMeter, PerfMon, SonarQube, OpenCover, Git, TFS

Frameworks:ASP/.NET (+Core), NET Standard, Angular6, SignalR, WebApi, MVC, MSSQL, PostgreSQL, Helm, Harness.io

Public Cloud: **MS Azure** [Storage (Table, Blob), CDN, VMs, Redis, Cognitive Services, SendGrid, functions], **GCP** [functions]

**WORK EXPERIENCE**

NCR Corporation Atlanta, GA

***Software Engineer III*** *(Omni-Channel Platform - DevEx Team)*  **Mar 2018**–**Present**

* Designed and delivered phase 1 of a multi-tenant delivery application ***(JAVA Springboot)*** for hospitality & retail customers
* Proved the concept of a multi-tenant menu-maker application ***(Angular6)*** and gave the project momentum to thrive
* Provided guidance on migrating to Apigee and GCP from a proprietary api gateway and platform services
* Created a **Jenkins, Harness.io, Openshift CI/CD** pipeline with **Docker** images of our admin app & deployed to production

***Software Engineer II/Dev Lead*** *(Online Ordering - Core Team)* **Apr 2015**–**Feb 2018**

* Wrote a highly-scalable, SOLID-inspired REST API to communicate with thousands of restaurant Point-Of-Sale systems
* Reduced app inefficiencies by up to **2x** through bottleneck and hotspot profiling, and code refactoring
* Load tested our app using **Powershell, JMeter, PerformanceMonitor,** and a **C#** console application to determine load points, with run-over-run statistical analysis, and forecasts for scale requirements to handle upcoming load events
* Improved app performance by **15x** by switching the inter-server communication protocol from **WCF** to **WebApi-Protobuf**, adopting asynchronous programming, and introducing multi-layer, distributed caching
* Enhanced error tracking by introducing correlation-id logging and championing **ElastAlert** monitoring for **ELK**
* Migrated UI assets to a CDN and added caching, reducing server load, improving scalability and user experience
* Solidified app security around authn and authz by designing and implementing an **OAuth** token exchange with custom claim validation, 2-Factor Authentication with **TOTP**, **reCaptcha** verification, and adopting **PBKDF2** for password-hashing

***Software Engineer I*** *(Online Ordering - Roadmap Team)* **Jun 2013**–**Mar 2015**

* Parallelized a daily data import service for thousands of restaurants, handling errors and status notifications

**PROJECTS & TINKERING**

* Wrote the backbone of a swipe-right-or-left food rating and ordering application for meals near you **(ASP.NET Core 1.1)**
* Created a data-analytics app that reconciles fragmented guest user information into a comprehensive customer **(.NET)**
* Designed and soldered an **IoT** logic board integrating a RaspberryPi 2 and a set of traffic lights to show **Jenkins** build health
* Learned about **CV** by drawing a track on the floor, and “driving” an RC-car with a camera-mounted RaspberryPi
* Authored an Azure function that emails subscribers every time the weather forecast shows temperatures below freezing, using **Weather.gov apis, Google charts, Azure Storage** and **Azure Functions**
* Developed an **Angular6** app to save, tag and analyze receipts from a user’s expenses, using **Azure Cognitive Services (OCR), US Census Geocoding API** and **Google Places API**
* Used **dotnet/reactive** to create a library that can create, manage, and persist reactive Finite State Machines
* Created a **.NET Core** console app to control a smart-bulb (TPLink LB130), with future plans to sync it with music
* Built a monkey-testing library in **.NET Standard** for **XUnit, NUnit** and **MSTest** to monkey-test code with loads of unique, edge-case arguments that are often problematic

**EDUCATION**

B/S Computer Science & B/A Biology Emory University, May 2013

**RECOGNITION**

**Publication**: (Pubmed, 24068758) *In vivo electrophysiology of nigral and thalamic neurons in 𝞪-synuclein-overexpressing mice…*

**Patents**: (Pending) **GeoFenced Promotions** — Enrich promotions by assigning them a geofence for better targeting and analytics

(Pending) **Voice-Assistant Item Lookup** — Lookup an item in store inventory through your phone’s voice-assistant

**MISCELLANEOUS**

Languages: Fluent in English, Urdu, Hindi and Punjabi; basic fluency in Arabic

Interests: Philosophical Discourse, Fantasy Fiction, Ping Pong, Soccer, Iron Maiden, Levon Minassian (Duduk) & Sigur Rós