

Independent Contractor Independent Contractor C#, data and distributed systems developer  
Ormond Beach, FL Authorized to work in the US for any employer Work Experience Independent  
Contractor Lieb-Tech, LLC April 2018 to Present - Modified CSS/HTML/PHP/MySQL sites - Primary  
customer has been VOLO, LLC Systems architect, senior developer & database administrator The  
Broadcast TEAM / ECN & VOLO, LLC June 1996 to April 2018 - Created communications systems  
which has delivered 100s of millions of messages - Developed many SAAS ecosystems for the  
communication systems - Clients ranged from large cities to Fortune 500 companies for BCDR and  
Emergency systems - Developed web applications: ? VOLO web applications: \* Architected  
proprietary JavaScript framework for a user customizable Single Page App interface \* Utilized  
jQuery, Knockout, Google maps, HighCharts, moment and SignalR \* Prior versions based on  
Silverlight + MVC/RIA services; PHP + MySQL ? Other websites: \* Setup site to accept & process  
customer file uploads and to schedule telephony projects \* Co-Developed ECN CodeRED website  
with ColdFusion \* Created a salesperson scheduler for MLM \* Developed a website to retrieve  
demographic reports for TV/Radio marketing \* Created ASP.NET Razor customer service & internal  
web applications - Wrote several versions of communications platform, developed in VB.NET and  
C#: ? Client/server architecture with multi-threaded server & client applications ? Created dynamic  
inbound call-flow system to drastically reduce time to market ? Delivers broadcast messages via  
Voice recordings, Text-to-Speech, SMS, email, push notifications ? For load-balancing and failure  
prevention, utilized multiple SMS vendors and relay SMTP servers ? Consolidated  
inbound/outbound telephony applications for improved resource utilization ? Remote monitoring,  
updating and administration of applications ? Setup ISDN & SIP based trunking with different  
vendors ? Intel Dialogic cards; Visual Voice and InventiveLabs telephony SDKs - Developed  
backend services: ? Cloud-based solutions: \* Setup web servers, serverless functions, virtual  
machines and ServiceFabric processors in Azure \* Configured Azure SQL Elastic Pools with Azure  
AlwaysOn replication in distinct regions \* Utilized Azure Service Bus message queuing to bridge  
on-premise & cloud systems \* AWS 1Click Button with node.js ? On-premise solutions: \* Installed  
and managed hardware for ISDN & SIP telephony \* Architected a multi-location/multi-cluster SQL

environment with redundant interconnects \* Setup MySQL cluster with Galera and HA-Proxy on Ubuntu \* Used both physical servers and VMWare based virtual machines ? Scalable and fault-tolerant systems: \* Auto-scaling Azure App Services in multiple regions, load-balancing with TrafficManager \* Utilized NoSQL Redis for session data store as backbone for scaling services \* Database pools for redundancy and use of read-only replicas \* Utilized multi-node ServiceFabric cluster to orchestrate microservices \* Message queuing with Azure Service Bus to provide decoupled services \* Generated telemetry data to monitor performance ? Cognitive and media services: \* Utilizing Google and Azure for Vision + Speech Recognition services \* NLP processing using StanfordNLP for keyword/phrase extraction and term trending \* FFMpeg used to transcode media files, extract images and audio from video ? Customer data file processing: \* Wrote application to parse, clean, validate, load and report customer data files \* Setup database driven file formats (CSV, XLS(X), PGP, ZIP), layouts and UDFs \* Geocoded address info using multiple vendors ? Geospatial processing: \* Utilized multiple vendors, including Google, for data geocoding services \* Performed Spatial queries against MSSQL in TSQL and EntityFramework \* Compiled data sources from GeoNames, NWS, OpenStreetMap for internal services ? Data feed processing: \* Built system to collect and process internet data sources for display and alerting \* Extracted data from Twitter, RSS, KML/Z, Shapefile formats and MS Graph Side Projects - Data feed processing & Angular/React web sites ( <https://LiebTechReact.Azurewebsites.net/> ): ? C# .NET Core on Raspberry PI processing engine based on Akka.NET actor system ? NLP utilizing StanfordNLP.NET to do NER and lemma processing for trending analysis ? Using ML.NET to perform MachineLearning based predictions ? Data is saved to CosmosDB NoSQL database, using JSON Document SQL API - Arduino with MQTT: ? Dual motor tracked robot with multiple sensors for obstacle avoidance and environment ? Sensor data uploaded to Azure via ESP32 WiFi to Azure EventHub via HTTP and MQTT ? Processed by Azure Functions to submit to SignalR for real-time sensor monitoring via web page - Arduino, NETMF, Raspberry PI, WinIoT, Python application for internet, sensors, buttons, LEDs, etc - PCB boards with SMD designed in EagleCAD; boards produced by OSHPark/OSHStencil - FFMpeg used to create stop motion video from individual

images of C# processed star-trail photography GitHub repo: <https://github.com/lieb-tech> Education  
High school or equivalent Skills C# (10+ years), Javascript (10+ years), SQL (10+ years), SIP (3  
years), .NET (10+ years), Linux

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