

Matthew Kuntz

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-- Work Experience --

2013-2015: **Aquas Inc.**

Intern and Jr. Developer. C# .NET 4.5, ASP Web Forms , SQL Server 2008. Minor VB.NET
Setting up source control (git), improving workflow process (git-flow, JIRA), and working
towards a continuous integration server (Bamboo or Jenkins)

2015-Present: **mHelpDesk**

Backend Software Engineer and Mobile Team Lead. .NET 4.5, netcore 1.1, SQL Server 2012.
Test Driven Development with netcore Rest API using LightInject, Moq and Dapper.
Android (5.0+) Development and Native team lead.
Gitlab + Jenkins + Octopus continuous integration. Logging ELK pipeline
Leading the effort to break up a monolithic webforms application into microservices (Kafka,
Docker, etc). Advocate for git-flow and code reviews. Monitoring Application and Server health
with AppDynamics, PRTG and monit

-- Technical Experience --

- **Javascript / Node.js** [5 years]
 - React (server/client); Redux; SCSS modules and JSS
 - Webpack, Babel, and ES2017
 - Express and Koa web server
- **.NET** [5 years]
 - netstandard 4.5 and netcore 1.1
 - ASP MVC Web Api
 - Real-time web-socket based web applications using MVC and SignalR
 - Dapper micro orm
 - Lightinject for IoC and Dependency Injection
 - XUnit, Moq, AutoFac and Fluent Assertions for unit tests
- **HTML/CSS** [3 years]
 - Bootstrap, Bulma, CSS animations
 - SCSS and CSS Modules
- **Database** [4 years]
 - MSSQL and Postgres
 - Document Databases (Elasticsearch, Firestore, DynamoDb)
 - Redis as a cache (using Protobuf for serialization)
 - RabbitMQ and starting experience with Kafka
- **Java/Kotlin** [4 years]
 - Android development experience using Android Studio
 - Reactive Extensions
 - Using normal Rest API with content providers as well as Firestore for real time sync
 - Experience with Realm (client side) and Sqlite
 - Some Play and Spring Boot Web Framework experience
- **Devops** [2 years]
 - Immutable Infrastructure - Saltstack, Packer and Terraform
 - Docker and Kubernetes
 - AWS and Google Cloud Platform experience
- **Elixir** [1 year]
 - Phoenix web framework and Ecto ORM

-- Projects and Misc --

- Cross Platform (Windows and Linux) infrastructure automation using Salt. Any service can be deployed to a new machine on any environment
- Converted an old AWS Classic loadbalancer into an nginx load balancer with access logs
- Setting up a logging and analytics pipeline by consuming application logs (filebeat), parsing into JSON documents (Logstash) and sending into Elasticsearch. Analysis and query with Kibana
- Built a Log Rotation tool for Windows after the log files are consumed. Rotate older Index data into S3 from the ES cluster using snapshots
- Moved Sql Server full text search into Elasticsearch using Rabbit MQ and a data-denormalization service with an average 1 second latency
- Built an event stream for processing user updates for Push Notifications to mobile devices in real time using RabbitMQ and Firebase Cloud Messaging
- Investigated email sender issues with Sendgrid and created an active backup to a secondary service (Mailgun)
- Establishing the Native Mobile team and hired other team members to round out the iOS team in order to replace an existing Cordova Application
- Android Development with Kotlin, Reactive Extensions and modern Material UI libraries
- Starting on a Project using Firestore to drive realtime mobile app experiences, with an offline cache for areas without cell reception
- Project planning and initial implementation for creating a strong real time pipeline using Kafka, Kafka-Connect and SQL change tracking to replicate SQL changes across distributed services to enable micro services and further refactoring efforts. Infrastructure design for scalable Kafka and Zookeeper clusters
- Researching Schema Registry and Storm to sit on top of Kafka to maintain a reusable schema across applications and services
- Project Planning for Containerization of services using Docker and Kubernetes on-top of EKS.
- Attended AWS re:Invent 2017 with a focus on Containers and Databases
- Building a modern Isomorphic Koa + React/Redux application using SCSS, webpack, Service Workers and path critical CSS inlining (for Page Speed Insights)
- Elixir, Postgres and Redis based rest API