

Dale O'Neill

810 La Crosse Dr.

Morgan Hill,
California 95037

(408) 763-2128

dale_oneill@hotmail.com

Summary

I have worked with large government agencies HHS, EPA, and the world's 11 largest pharmaceutical companies. My job was building and releasing software to compliantly store some of their most critical data. I have worked to bring old systems forward in a manner that is good for the company, but more importantly for the customer. What seems difficult can be resolved when you put a good group of engineers together.

Skills

Project Management: SDLC, Agile, Jira, GitHub, MS Team Services

Road Map: Architect, Design

Technologies used: Kubernetes, Docker, Microservices, ASP.Net Core, REST, GraphQL, C#, C++, Python, Power Shell, Web Assembly WASM, WPF, MSSQL, IAM, Nats (Pub/Sub), Event Driven Architecture

Leadership: Technical Lead, Manager

Platforms: Windows, Linux

Work Experience

Senior Software Engineer AptonBio Systems – Pleasanton California

▪ DNA Sequencing

- **Technologies** Docker, Kubernetes Service Architecture, ASP.Net core, GraphQL, REST, Blazor, C#
- **Architecture** architecting a distributed platform using such technologies as kubernetes and Event Driven Architecture.

Assisted in the build out and release of the current software while designing and architecting a distributed Event Driven architecture to eventually replace it. The instrument processes tera bytes of imaging data (100 to 300 Tera Bytes).

Lead Software Engineer Agilent Technologies – Santa Clara California

▪ On Demand Solutions Application Suite and Delivery

- **Technologies** Docker, Micro Service Architecture, NATS, ASP.Net core, GraphQL, REST, IAM, C#
- **Leadership** Led team with 6-8 engineers, 2 testers, and a marketing program manager

Proposed and architected the development of a Web based solution for some of our largest customers. The architecture came to be known as the application suite. A place where applications can be added and removed depending on customer's needs. The solution included the gradual migration of the current Content Management System to a newer Web based technology stack.

▪ Export Import and Sync Services (EISS)

- **Technologies** Docker, NATS, ASP.Net core, Web, and windows UI, GraphQL. C#, MSSQL, Oracle
- **Leadership** Led team with 1 Lead Engineer, 10 developing engineers, and 3 testers

Created and implemented the Migration and Sync Services for our largest customers Content Management Systems. Being aware of the multiple issues our support services and customers were

experiencing I proposed a new paradigm of moving and merging data. This gave sales and support services teams the ability to migrate and move data across different version of the system, change databases (Oracle, MSSQL), archive data, and sync changes. What was thought to be impossible we made possible with a paradigm change on how people viewed the data.

- **Remote Task Services (RTS)**

- **Technologies** powershell, hosting, commandlets and providers. Microservice architecture using C#, and NATS (High performant Pub Sub messaging)
- **Leadership** Led a team of 1 Lead engineer, 7 engineers, and 2 Testers

These services gave the ability to automate operations across the enterprise. The services and the administrative application allowed jobs to be scheduled and run to performing monitoring and data collection. Data collected was either passed onto other systems, such as the Asset Management services, or stored in databases for support services to help resolve customer instrumentation issue.

- **On Demand Solutions Installer and Delivery Mechanism**

- **Technologies** Docker, Windows UI, C#, Jira, Git
- **Leadership** Led team of 1 Lead engineer, 5 engineers, and 2 testers

Built a docker orchestrator to meet the needs of our Idempotent Installation and support requirements. This delivery mechanism, validated, and ran docker images based on a specific set of requirements built at the factory. With the engineering team having no more capacity, I stepped in and built on my own time. When the software was completed, the team integrated the work into the software life cycle and released it.

Lead Software Engineer Scientific Software – Pleasanton California

- **ECM Content Management**

- **Technologies** ASP.Net MSSQL, Oracle, C#, C++, IAM

Was part of a team in the development of the Content Management software. ECM collects and stores data for the world's largest Petrochemical and Pharmaceutical companies. My focus was on security – user validation and authorization.

- **Data Processing Engine Framework (DPE)**

- **Technologies** C++, MSMQ, Windows Services

Corrected deficiencies in the back-end processing mechanism of ECM. The problem revolved around five different types of filter methods each requiring a unique way to be communicated with. Implemented a single model of communication for all processing components. This unified model, known as the DPE framework, has simplified the development, testability, and maintainability of these components.

Lead Engineer Intersection Development Corp – Fremont California

- **Technologies** C++, Windows

Lead the development of Central Services software. This software allowed government agencies to control and configure their traffic system.

Education

- Bachelor's degree Computer Science, Brigham Young University, Provo, Utah