

Experience

Amazon: Full-Stack Software Development Engineer

April 2022 - Present

Amazon Visualization Platform (AVP)

- Contributed to internal SCADA solution for real-time data visualization across Amazon FCs
- Optimized data transmission layer processing 200,000 records/s for near real-time use
- Built AppSync API backend for efficient live data distribution to user's browser
- Integrated with internal permissions system for self-service Site Layout management
- Used PixieJS to create interactive features allowing users to create and manipulate Site Layouts

Diesel

- Contributed to Golang-based service for reading and processing data from Programmable Logic Controllers (PLCs)
- Built validation service to guarantee modeling and expression validity
- Implemented features to catch and alert users of runtime errors, such as missing raw data
- Led development of UI for monitoring Diesel status and deploying Amazon Machine Data Interface (AMDI) models

ExxonMobil: Full-Stack Software Developer

July 2018 - March 2022

Reservoir Management Data Environment

- Developed Angular front-end and .NET Framework API for efficient management of forecast data
- Supported Power BI dataflows for user-created visualizations and reports
- Built CI/CD pipeline in Azure DevOps for automated resource updates and rapid application deployment

NextPlan

- Led development of system processing 30 million data points from legacy Excel-based applications
- Automated financial forecast workflows and data visualizations, enhancing cross-team communication
- Implemented role-based access (Azure AD and OAuth 2.0) to secure proprietary data
- Designed my organization's first production Azure application

Master Data Integration

- Built UI for API system managing 500,000 entity records from 11 source systems
- Optimized API design for long-term supportability, serving 450 unique monthly users

Legacy Web Applications

- Developed and supported web based document management system that routed millions of documents to destination systems for \$700,000 annual savings
- Supported custom web application responsible for creating the official accounting record for new wells

Skills & Technologies

- *Programming Languages:* TypeScript, Go, C#, Java
- *Software & Tools:* Git, Node.js, React, Redux, Angular, .NET Framework, .NET Core, SSMS, IIS
- *AWS:* Lambda, API Gateway, ECS, Kinesis, DynamoDB, AWS AppSync, OpenSearch, CloudFront
- *Azure:* Pipelines, App Services, Azure SQL, Azure CLI, Azure AD, CosmosDB, Azure Data Factory

Education

Oklahoma State University - Stillwater, OK

Aug. 2014 - May 2018

B.S. Electrical Engineering, B.S. Computer Engineering, Minor in Mathematics

GPA: 3.97