

# **Ian Dalrymple**

**Objective:** Obtain a full-time position as a software engineer / data scientist / data engineer.

**Certifications:**

ASQ's Certified Six Sigma Black Belt (Certification: 11123)  
ASQ's Certified Quality Engineer (Certification: 59820)  
ASQ's Certified Reliability Engineer (Certification: 8127)

**Experience:**

- |                 |  |
|-----------------|--|
| Jan. 05-Present | <b>Erma's Original Frozen Custard</b><br><b>Owner / Data Scientist / Data Engineer / IT Application Developer</b><br><b>Shelby Twp., MI</b> <ul style="list-style-type: none"><li>• Developed sales forecast models with SciKit-Learn (GBR, RFR, Neural Network, Linear Regression, SVR) and serves up resulting predictions in .NET CORE web application. The user inputs date and store on web UI and back-end Python engine acquires necessary data from SQL server, unpickles pipeline / model and sends prediction back to the web application.<ul style="list-style-type: none"><li>○ Developed C# tool to automatically acquire sales data from POS vendor API's with results stored in normalized MSSQL server database.</li><li>○ Developed C# tool to automatically acquire weather data from Open Weather Map with results stored in normalized MSSQL server database.</li><li>○ Built full ETL pipeline resulting in final ML models for consumption by prediction tool.</li></ul></li><li>• Implemented Azure Functions for POS and weather API data collection and storage in Azure cloud SQL database.</li><li>• Data visualizations using Qlik supplied by fully automated pipeline.</li><li>• General data mining using Jupyter Notebooks in Visual Studio Code.</li><li>• Developing fraud detection machine learning solution to reduce in store fraud losses (voids and comps loss vector).</li><li>• Developed VB.NET register reconciliation web site with backend MSSQL server storage.</li></ul> |
| Dec.21-Present  | <b>Mattang</b><br><b>Integration Engineer</b><br><b>Remote</b> <ul style="list-style-type: none"><li>• Integrate various business systems with master data management platform using APIs with various forms of authentication (OATH, basic, keys).</li><li>• All integrations created in C#.</li><li>• Deployment of integrations to Docker container running inside a Kubernetes cluster.</li></ul>  |
| Nov. 17-Dec. 21 | <b>Stryker Instruments</b><br><b>R&amp;D Embedded SW Engineer</b><br><b>Kalamazoo, MI</b> <ul style="list-style-type: none"><li>• Developed one-bay-at-a-time, time-sliced NFC solution to reduce emissions.</li><li>• Medical device embedded SW development in C/C++ on STM chipsets.</li><li>• Create testing tools in C# automating measurement system(s) and DUT(s).</li><li>• Multiple actor communication protocol architecture and implementation among embedded devices and PC applications (UART and / or I<sup>2</sup>C).</li><li>• Core clock, auxiliary timer, ADC, DAC, UART, I<sup>2</sup>C and RTC initial configuration.</li><li>• Bug tracking and sprint task tracking using Jira.</li><li>• Revision control with Git using SourceTree UI front end.</li></ul>   |

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## **Ian Dalrymple**

Sept. 16-Nov. 17      **Stryker Instruments**      **Kalamazoo, MI**  
**Advanced Service Engineer**

- Surgical cutting device testing system development for repair center (VB.NET) utilizing SOLID design principles.
- Partial repairs manual pressing strategy development and deployment.
- Full box build test system development for repair center (VB.NET). System communicates with UUT, DMM's, power supplies, electronic loads and other ancillary equipment to drive test sequence.

Jun. 09-Aug. 16      **Stryker Instruments**      **Kalamazoo, MI**  
**Advanced Manufacturing Engineer**

- Interference press fit process development.
- Development and qualification of air eliminating grease dispensing system.
- Determination of manufacturing line layout and procurement of associated equipment.
- Management of SCADA implementation project - the system forces the prescribed sequencing of standard work operations, archives all process data and creates an electronic device history record.
- Statistical process development.
- Assist with SQL database development, architecture / schema.

### **Education:**

Jan. 2021-  
Oct. 2021      **Eastern University**      **Online**  
**Master of Science, Data Science**  
Cumulative GPA: 4.0/4.0

Sept. 2014-  
Nov. 2017      **Oregon State University**      **Online**  
**Bachelor of Science, Computer Science**  
Cumulative GPA: 4.0/4.0

June 2012-  
Aug. 2014      **Pennsylvania State University**      **World Campus**  
**Master of Applied Statistics**  
Cumulative GPA: 4.0/4.0

Sept. 1999-  
Dec. 2001      **University of Michigan**      **Ann Arbor, MI**  
**Bachelor of Science and Engineering, Chemical Engineering**  
Cumulative GPA: 3.76/4.0

Sept. 1996-  
June 1999      **Kalamazoo College**      **Kalamazoo, MI**  
**Bachelor of Arts, Chemistry**  
Cumulative GPA: 3.6/4.0