

# Liz Pavlik

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## Professional Summary

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Technology student transitioning from computer-aided drafting and design to data analytics and cybersecurity, combining practical CAD experience with a strong foundation in mathematics and programming.

## Education

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**University of Maryland Global Campus**  
*Bachelor of Science, Applied Technology*

Expected May 30 2026

**Central Texas College**

Dec 2013

*Associate of Applied Science, Computer-Aided Drafting and Design*

## Course Projects

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**SQL Data Extract, Transform, Load (ETL) Project, DATA 330 - Business Intelligence and Data Management**

- Developed SQL scripts to extract data from CSV files, perform calculations, and load data into a unified staging table with a standardized schema
- Handled inconsistencies such as field name variations, split shipment quantities, and discount calculations; validated data through checksums and diagnostic queries
- Translated technical ETL processes into a clear, non-technical business memo suitable for stakeholders

**Oracle SQL Database Project, CMSC 420 - Advanced Relational Database Concepts**

- Implemented small-scale transactional and analytic Oracle databases for online automotive sales startup
- Developed PL/SQL stored procedures and complex SQL queries for vehicle sales performance analysis and decision support

## Work Experience

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**CAD Technician, Landtech Resources**

Jun – Aug 2016

- Drafted 3-4 property surveys for residential and commercial clients daily
- Completed structural detail work in support of civil engineers
- Designed AutoLISP routines for drawing surveys, reducing average drafting time by 1 hour

**CAD Technician, AMG Engineering**

Sep 2014 – Feb 2016

- Prepared construction drawings for 1-3 multimillion-dollar agricultural and manufacturing projects each week, meeting all deadlines
- Developed 3D models of structural concrete and steel elements, mechanical equipment, and ventilation ductwork for construction, equipment installation, and clash detection
- Updated internal technical documentation and drafting standards
- Designed AutoLISP routines for 3D geometry, reducing modeling time per project by 1-2 hours

## Certifications

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**Cribl – Level 1: Cribl Certified User**

Feb 2026

## **Applied Technology Coursework**

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### **DATA 320 - Introduction to Data Analytics**

- Applied statistical concepts and predictive analytics using Power BI; performed data exploration, preparation, and visualization; developed linear regression models to analyze datasets and communicate insights

### **CMIT 320 - Network Security**

- Assessed and mitigated security risks by implementing network security controls; analyzed vulnerabilities in IoT/IoMT devices using Linux; developed security plans addressing administrative, physical, and technical safeguards

### **WRITG 393 - Advanced Technical Writing**

- Synthesized diverse sources into data-driven arguments and recommendations; created professional reports, presentations, and technical documentation using document design principles for technical and non-technical audiences

### **DATA 335 - Data Visualization**

- Created interactive dashboards and data visualizations using Tableau applying design best practices; performed data importing, linking, transformation, and preparation; developed compelling data stories with time series, multidimensional data, heatmaps, and infographics for business stakeholders

### **CMIT 326 - Cloud Technologies**

- Deployed and configured cloud infrastructure on AWS platform including VPC, EC2 instances, security groups, and databases; performed comparative analysis of cloud vendors (AWS, Azure, Google Cloud); implemented high availability, scalability, and security best practices for cloud environments

### **CMSC 340 - Web Programming**

- Developed interactive, database-driven web applications using PHP, MySQL, JavaScript, HTML5, and CSS; implemented client-side and server-side scripting, form handling, session management, and authentication; applied web architecture, networking protocols, and security best practices

### **MAT 421 - Statistical Methods**

- Performed statistics, multiple linear regression, analysis of enumerative data, analysis of variance, multiple comparisons, design of experiments, discriminant analysis, and analysis of covariance using R programming language