# David Kilday

1515 Pigeon Creek Rd
Greeneville, TN 37743

(423) 972-3111
davidkilday@live.com
http://www.davidkilday.com

## Experience

Jan 2023 – Current　　　　　Drivecentric
### Senior Software Engineer, Team Lead

· Wrote a micro-service web api that allowed the user to fetch reports given various filters.
· Developed a product that the business had previously been told was not possible that allowed users to "drill into" datapoints on the reports and retrieve the data represented.
· Re-wrote angular code to incorporate new api and display new "drill into" data.
· Redesigned the report pre-processing service to use more familiar .net code and run sql scripts directly, simplifying the process and reducing nightly processing time from 7 hours to under 2.

Jun 2019 – Jan 2023　　　　Ministry Brands – Payment Brands Division
### Senior Applications Developer

· Wrote c# code to handle payment processing through PayPal.
· Designed a new merchant portal utilizing Blazor, c# .net Web Api, SQL Server, Azure Functions, etc. The portal allows merchants to onboard and process with multiple payment processors such as Worldpay, PayPal, and Finix.
· Automated Funding and Billing processes to use Azure Functions that are triggered and monitored from the portal website.
· Led incorporation of new technologies such as vue.js and Blazor.
· Designed a Claims based Authorization system for the portal website.
· Was designated several times to intervene in projects that weren't going well.  This often involved pair programming with the developer, and sometimes re-architecting and simplifying the design.

Mar 2018 – Jun 2019　　　　Vortext Analytics
### Senior Applications Developer

· Created the database schema for our denial management product.
· Created Angular code that allowed denial management forms to be customizable by the user.
· Created code to allow pdf forms to be edited inside the Angular app
· Redesigned security to use claims for roles, privileges, etc.
· Created an authorization system for the data science team, so their reports could be authenticated by our website using tokens.

Sep 2015 – Mar 2018　　　　Clayton Homes
### Senior Applications Developer

· Created Web APIs and WCF Services for the external web application  used by independent retailers.
· Maintained and created Angular code for the application.
· Implemented an Authentication system using JWT Tokens and ADFS.
· Started a code review process using pull requests in Bitbucket.
· Took an active role in mentoring junior developers.

Sep 2013–Sep 2015        Cellular Sales
## Applications Developer
- Performed 90% of all bug fixes to the point of sale website.
- Used MVC to create new functionality and to rewrite Classic ASP pages.
- Researched the point of sale website for security vulnerabilities.
- Presented my findings to the Software Engineering team including a demonstration of the vulnerabilities, and an action plan to fix them.

Dec 2012 – Sep 2013        ACT Technologies
## Reports Developer
- Created and maintained the vb.net and C# code used in report creation.
- Created and maintained Oracle stored procedures.

Aug 2011 – Jul 2020        EZ Assessment
## Small Business Owner / Manager
- Developed SAAS product that allows teachers to make any multiple-choice test into an online assessment.
- Written using Vue.js, Web APIs, and a SQL Server database.
- Over 150,000 tests have been submitted through the site.

# Skills
## Programming
- C#, .NET, Web API, WCF, WPF, WinForms
- Angular, React, Vue.js, Blazor, Javascript, HTML, CSS
- Azure, Azure Functions
- AWS, Kafka, ECS, Lambda
- SQL Server, Postgres, Redshift, Oracle, MySQL

## Web Security
- Have demonstrated attacks and taught protections for vulnerabilities such as:
    - SQL Injection
    - Cross-Site Scripting (XSS)
    - Cross Site Request Forgery (CSRF)
    - Broken Access Control
    - Session Hijacking
    - Dictionary Attacks

# Education
1995–1999:2002–2004      University of Tennessee
- B.S., Business Management.
- Master of Science, Teacher Education.
- Mathematics Degree Equivalent