**Davis Kolakowski**

**.NET Software Engineer**

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**Summary**

Experienced Software Engineer with over eight years of expertise in full-stack development, specializing in web technologies like Vue.js, React, TypeScript, and .NET. Passionate about driving user growth through innovative, user-centric solutions, with a proven track record of optimizing performance and automating processes to enhance user experiences. Skilled in collaborating with cross-functional teams to deliver scalable features that acquire, activate, and retain users.

**Technical Skills**

* **Programming Languages**: JavaScript, TypeScript, C#, TSQL, HTML, CSS
* **Frameworks & Libraries**: Vue.js, React, ASP.NET Core, .NET 8, .NET Framework 4.6+, Blazor
* **Databases**: SQL Server, PostgreSQL, Stored Procedures, Views, Performance Optimization
* **Architecture**: RESTful APIs, Microservices, Authentication Systems, ETL Pipelines
* **DevOps**: Azure DevOps, CI/CD Pipelines, Automated Testing
* **Cloud Platforms**: Azure, AWS
* **Tools**: Visual Studio, VS Code, Azure Data Factory, Tableau Integration

**Professional Experience**

**Lead Software Engineer**

**Mirth Systems** | Apr 2025 – Present  
*Williamsport, Pennsylvania, United States*

* Conceived and led the development of Pulse, an innovative real-time nightlife discovery platform, designing a privacy-first, location-based system with a unique three-category classification (Venue Types, Tags, Vibes) to deliver community-driven insights.
* Architected and implemented the minimum viable product (MVP) using Vue.js, .NET Core, PostgreSQL, and Auth0, delivering features such as real-time venue activity threads, special-driven connections, and a venue management portal.
* Engineered a scalable microservices architecture with secure authentication, optimizing for real-time data synchronization and user engagement.
* Demonstrated entrepreneurial leadership by translating market needs into a user-focused solution, driving value for consumers and venues.  
    
  **Key Project**:  
  + **Pulse Nightlife Discovery Platform** (https://pulse.mirthsystems.com/, https://github.com/MirthSystems/pulse-by-mirth-systems)  
    - Developed a web application with Vue.js and .NET Core, integrating real-time messaging and ephemeral content with a 15-minute expiration model for user posts.
    - Implemented a PostgreSQL-based recommendation engine and category-driven discovery system, enhancing user experience through personalized venue suggestions.
    - Technologies: Vue.js, .NET Core, PostgreSQL, Auth0, Azure, Docker.

**Software Engineer III**

**Comcast** | Dec 2017 – Apr 2025

* Developed scalable web applications and microservices using .NET, React, and TypeScript for digital advertising platforms, focusing on performance and user engagement.
* Led the integration of Azure Data Factory for ETL processes, streamlining data workflows to enable real-time analytics for operational growth.
* Mentored junior developers in modern web and cloud technologies, promoting a culture of experimentation and improvement.
* Migrated legacy systems to .NET 8 and cloud-native architectures, enhancing scalability and reducing maintenance overhead.
* Standardized deployment processes with Azure DevOps, cutting release cycles by 30% and improving feature delivery speed.  
   **Key Accomplishments**:  
  + Reduced a manual 18-hour content validation process to 27 minutes (97% efficiency gain) through custom C# automation, eliminating cross-team bottlenecks and reducing overtime costs.
  + Decreased report development time from days to under an hour (95%+ efficiency gain) by creating a reusable React data grid framework integrated with MSSQL.
  + Led the successful migration to Okta identity management after a previous 2-year failure, ensuring seamless authentication across diverse application stacks.
  + Built executive dashboards that enabled data-driven decision-making for senior leadership, integrating disparate data sources for unified reporting.
  + Implemented ETL solutions that unified disparate data sources, enhancing operational insights and user-facing analytics.

**Key Projects**:

* + **Linear Content Automation Platform** (https://github.com/DavisKolakowski/Linear)  
    - Architected and developed a C#/.NET application with a CSS/HTML frontend that automated critical linear advertising content validation.
    - Reduced nightly quality control process from 18 person-hours (4 people × 4.5 hours) to 27 minutes (97% reduction).
    - Implemented fault-tolerant validation algorithms to ensure zero on-air commercial errors.
    - Technologies: C#, .NET, CSS, HTML, SQL Server integration.
  + **XLReportBook** (https://github.com/DavisKolakowski/XLReportBook)
    - Developed a .NET Standard library to streamline Excel report creation, ensuring compatibility with .NET Framework 4.6.1 using DocumentFormat.OpenXml (v2.14.0).
    - Designed an extensible framework with custom attributes for defining report schemas and manipulating data.
    - Ensured reliability through comprehensive testing.
  + **MSSQL Data Grid Reporting Service** (https://github.com/DavisKolakowski/ReportingServices)
    - Designed and implemented a comprehensive reporting framework for a legacy .NET 4.6.1 advertising platform.
    - Created an extensible architecture allowing developers to expose database views/stored procedures as fully-featured React data grids.
    - Reduced report creation time from several days to under an hour (95%+ efficiency gain).
    - Technologies: C#, JavaScript, TypeScript, TSQL, React, .NET Framework 4.6.1.
  + **Identity Broker Migration**
    - Developed authentication middleware and integration patterns for diverse application stacks.
    - Created comprehensive documentation and implementation guides for .NET, React, Angular, and Vue applications.
    - Technologies: Okta, OAuth/OIDC, .NET Core, .NET Framework, JavaScript frameworks.
  + **AQC Manifestly ETL Toolkit** (https://github.com/DavisKolakowski/AQC.Manifestly-ETL-Toolkit)
    - Engineered a C# ETL solution to integrate Manifestly’s RESTful API data with internal SQL databases.
    - Developed for the Senior Director of Advertising Quality Assurance to enable KPI-based management through Tableau.
    - Technologies: C#, .NET, RESTful APIs, SQL Server, ETL patterns.
  + **Aha! to Tableau Data Pipeline**
    - Developed a C# application to extract product roadmap data from Aha!’s REST API and transform it for analytics.
    - Created a normalized MSSQL database schema optimized for performance metrics reporting.
    - Technologies: C#, .NET, MSSQL, RESTful APIs, ETL patterns.

**Front End Developer**

**Contractor** | Aug 2015 – Dec 2017

* Designed and implemented responsive, cross-browser compatible web interfaces using HTML5, CSS3, and JavaScript, boosting user engagement.
* Built custom interactive UI components and data visualizations to simplify workflows and enhance user experience.
* Optimized site performance through code minification, image optimization, and lazy loading, achieving a 25% reduction in load times.
* Collaborated with backend developers to design and consume RESTful APIs, ensuring seamless data integration and analytics for UX improvements.

**Operations Agent**

**Geek Squad** | Mar 2015 – Aug 2015

* Provided technical support for hardware and software issues, achieving a 90% customer satisfaction rate through effective troubleshooting and problem resolution.