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EDUCATION: *University of Illinois-1986*
Bachelor of Science degree, major in Mathematics & Computer Science, minor in Business. Graduated magna cum laude with high distinction in computer science.

CERTIFICATIONS: *Microsoft Certified – Azure AI Fundamentals, Azure Database Administrator Associate, Azure Fundamentals, Power Platform Fundamentals*
Microsoft Certified Professional
Microsoft Certified Technology Specialist - SQL Server 2008, Database Development
Microsoft Office Specialist – Microsoft Office Access 2007, Microsoft Office Excel 2007

AWARDS: *Microsoft MVP (2018-2026)*

ORGANIZATIONS: *Microsoft Partner*

EMPLOYMENT: *President*, Barnes Business Solutions, Inc. (2008-present)
President, Barnes Consulting, DBA (1999-2007)
Computer Programmer/Analyst , A+ Computer Specialists, Inc. (1992-1999)
Systems Engineer, Imagination Systems, Inc. (1989-1992)
Programmer/Marketing Assistant , SHA Computers, Inc. (1987–1988)
Computer Programmer/Analyst , U.S. Army Corps of Engineers (1985-1986)

EXPERIENCE: *Microsoft Access (April 2003–present)*
- Developed a Github project https://github.com/mbarnesatbbs/VBA-MicrosoftGraph to make working with Microsoft Graph APIs easier from VBA. Used **Access 365**.
- Improved **Access 365** database tools and created automated processing and reporting for Altura Consulting Group.
- Updated an **Access 2013 ACCDE** to be used in **Access 2016** or with **365** for Optum.
- Provided maintenance and enhancement development to an **Access 2016 ACCDE** for approximately 75 users at Optum.
- Upgraded an **Access 365** to use **ODBC for SQL Server 18.1** connector to implement auto retry logic for lost Azure connections for All Window Cleaning.
- Developed an **Access 365** reporting tool to merge 2 separate shipping software exports into one report and a QuickBooks import file for IFS Freight.
- Consulted on ways to minimize **Access 365** inconsistent state error for Public Authority.
- Developed a customized **Word** interface with **Access 365** for client communications for Greenberg Á Sada.
- Developed a customized **Access 365** application for computing payroll commissions for Rooms Á Rest. Interfaced with **Storis** retail software and **Paylocity** time card software.
- Converted an **Excel 365** reporting tool to **Access 365** to provide accuracy and overcome row limitations for Wyoming Institute for Disabilities.
- Developed a custom Contacts Application in **Access 2016** by extending template for Grand Staffing Agency.
- Enhanced an **Access 2016** database developed by another company to add additional functionality for a Contract Compliance company.
- Merged two existing **Access 2010** databases into one cohesive front end, updating functionality for Land Surveying Services.
- Migrated an **Access 2013 ACCDB backend** to a web database for Aligned Operations.
- Modified an existing **Access 2007** database for student information for Douglas J Companies.
- Developed an **Access 2010** database for trucking order and load management for Shotgun Express.

- Extended an **Access 2007** database for new optional manufacturing process and provided support for new **Access 2010** users for Hansen Plastics.
- Developed **Access 2007** database for commision sourcing, interfacing with **Microsoft Dynamics SQL** tables for US Water Services, Inc.
- Ported **Access 2003 ADP** database to **Access 2010 ACCDB** for medical claim overpayment processing for AfterMath Claim Science.
- Developed **Access 2007** database for potential sales tracking for Accel Entertainment.
- Customized **Access 2003** front end **MDBs** and **ADPs** to respond quickly to user needs in production environments at AfterMath Claim Science.
- Developed **Access 2007** front end to customize an **IMAGIC Inventory Access** backend for trip inventory check in/out for The HistoryMakers.
- Customized **Access 2007** database for contacts for The HistoryMakers.

SQL Server *(June 2003-present)*
- Migrated extensive **SQL Server 2008** database to **SQL Server 2016** with minimal disruption and downtime for Equian.
- Migrated **Microsoft Access** database to **SQL Azure** for LodgePole, All Window Cleaning, Barnabus Financial Ministry, and IFS Freight companies.
- Developed **SQL Server 2008** stored procedures for extending an **Access 2010 ACCDB** and providing new client required interface for Equian.
- Linked to **SQL Server 2005 MAS** tables for integration with an **Access 2010** database for United Gasket.
- Linked to **SQL Server 2008 Microsoft Dynamics NAV** tables for integration with an **Access 2010** database for US Water Services.
- Developed **SQL Server 2008** stored procedures for extending an **Access 2003 ADP** and providing new client required interface for AfterMath Claims Science.

Mobile applications *(June 2015-present)*
- Developed **Mobile application** for **iOS** and **Android** for U.S. Water

Microsoft Excel *(April 2005–present)*
- Developed and **Excel 365** tool which integrates with **Power Automate** for automatically updating project data with parts of a Cayuse export for Wyoming University.
- Developed an **Excel 2016** tool to input Saas Transportation data and massage it quickly into both an Excel report and a **QuickBooks** import for TMG Consulting.
- Interfaced an **Excel 2016** tool with a password enabled **Access 2016** backend for Greenberg Á Sada.
- Developed an **Excel 2013** tool and template for Sales Performance analysis for Nalco Water, an Ecolab Company.
- Customized an **Excel 2013** tool for Manufacture Forecasting for Hansen Plastics.
- Developed an **Excel 2010** tool for Imaging Sales for IMAGETEC.
- Developed an **Excel 2007** tool for formatting of horse racing data for Eclosers.
- Customized an **Excel 2010** tool for Service Order Requests to integrate a Project Completion form for Nalco, an Ecolab company.
- Customized an **Excel 2003** tool to provide multi-company functionality for Nalco Crossbow. Later upgraded the tool to **Excel 2010.**
- Extended an **Excel 2007** spreadsheet to work with **VeriMove Pitney Bowes** address verification software to print detailed custom financial flyers with presort savings for United Mortgage Services.
- Developed **Excel 2007** tools to provide monthly inputs for new/lost account reporting and conversion planning for Nalco Company.
- Customized an **Excel 2007** tool which interfaced with **PowerPoint** for sales presentations for Nalco Company.

Microsoft Word *(July 2005-present)*
- Customized macro on **Word 2007** form to pull in more photos and rearrange better to fit for The McIntosh Group.

SharePoint Workflows (August 2010–present)
- Developed **SharePoint 2007** workflow for new employee paperwork tracking for CMIT Solutions using **SharePoint Designer 2007**.

C# .NET (March 2005-present)
- Maintained **C#** interface for document generation and communication, including interfaces with email and fax for Equain.
- Customized a **Word** interface using **C#** including modifying the **Word toolbar (2000-2003)** and **Ribbon (2007)** for Hyde Park Systems Group**.**
- Developed reports for a wholesale order system using **C# .NET, Infragistics controls,** and **SQL Server**. Interfaced with **Great Plains** data to provide a simplified on-demand customer statement for Hyde Park Systems Group.

Visual Basic .NET (April 2005–present)
- Developed a prototype system for new business modeling in **Visual Basic .NET 2008** for AfterMath Claim Science.
- Designed and developed a for retail sales **Visual Basic .NET 2005** application for research writing. Used **Windows Installer** and backend **SQL Express** database.
- Developed reporting for accounting system using an **Access 2003** interface with **.NET and SQL Server 2005** for Young, Young, and Young.
- Coded **VB .NET 2005** forms from spec using template interfaces, **ADO .NET** , and **SQL 2005 stored procedures** for Young, Young, and Young.
- Developed printing and **Excel** export interface for form template including **Infragistics Grid controls** for Young, Young, and Young.

ASP.NET (August 2009–present)
- Developed a website Contact form for sending email contact requests.
- Repaired an **ASP .NET** website which had been moved to reestablish correct connection strings for **DC Appwerx**.
- Developed an **ASP .NET** interface to a **SMS Text Messaging** mechanism for corresponding between Market Research management/analysts and technicians.

ASP (June 2003– August 2009)
- Developed a **MS Access** database-driven registration process using **ASP** and **HTML**. Interfaced with **PayPal** purchasing system, providing **Licensing** capability for software product purchase for Hyde Park Systems Group.
- Developed a registration routine that allowed securing a distributable **Access** database by providing main contact information editing only through a **Web Browser** . Wrote **ASP** code to interface with a **back end Access** database for registration validation for Fix My Database.
- Developed a **MS Access** database-driven web site for new home construction using **ASP, VBScript,** Jscript , **HTML, CSS, DHTML,** and **XHTML**. Provided 3 levels of security as well as tracking of users to aid in potential customer follow-up for Fix My Database.

Integration (August 1999-present)
- Developed an interface between **NetSuite** and **TAI TMS** for IFS Freight
- Modified **TAI TMS** document schemas to provide custom shipping documents for changed transactions for IFS Freight
- Developed an interface between **Sass & Quickbooks** for TMG Consulting.
- Developed an interface between **Access & Quickbooks** for Shotgun Express.
- Developed an interface between **Access & MAS 90** for United Gasket.
- Developed an interface between **Access & Microsoft Dynamics NAV** for US Water Services, Inc.