

# Andrew Bach

Andrew@AndrewBachCodes.com | (605) 553-3677 | Dell Rapids, SD | [AndrewBachCodes.com](http://AndrewBachCodes.com) | [LinkedIn](#)

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## SUMMARY

Software Developer II with 12+ years of experience in web and software development. Specializing in Dynamics 365 Finance & Operations (X++), AI agent development, full-stack .NET applications, and SQL-driven systems. Proven track record in leading teams, enhancing productivity, and delivering complex technical solutions.

## Technical Expertise

- Dynamics 365 Finance and Operations
- Copilot Studio & AI Agent Development
- .NET Core, ASP.NET MVC, Razor, Blazor
- Microsoft SQL Server
- Entity Framework Core
- Agile Project Management
- Team Leadership and Development
- E-business and Enterprise Solutions

## PROFESSIONAL EXPERIENCE

### Software Developer II Midco | Sioux Falls, SD

September 2025 - Present

- Manage, integrate, and extend Dynamics 365 Finance and Operations using X++.
- Build and implement AI Agents using Copilot Studio.
- Lead AI initiatives, including setting up an MCP server that indexed our X++ codebase to enable AI development in a language with poor training data.
- Deploy an agent in D365 with access to business-specific knowledge and ERP MCP tools.
- Develop full-stack software applications using ASP.NET MVC and Blazor.
- Manage multiple databases, utilizing SQL and SSMS.

### Software Developer

November 2022 – September 2025

#### St. Joseph's Indian School | Sioux Falls, SD

- Developed software applications using ASP.NET MVC, Razor Pages, Webforms, and Winforms.
- Managed multiple databases, utilizing SQL and SSMS.
- Built full-stack systems from architecture through deployment.
- Created an Allowance Management system for campus staff to manage student allowances.
- Built a Health Center & eMAR system enabling medication scheduling, administration tracking, and student health record management.
- Supported NICE InContact call center operations, scripting complex call flows and integrations; reduced 22 scripts to 6 and added multi-number donor outreach support.

### Andrew Bach Codes - Freelance Web Development

2011 - Present

#### Dell Rapids, SD

- Develop and maintain custom websites and software for local businesses and organizations.
- Portfolio: [Portfolio.AndrewBachCodes.com](http://Portfolio.AndrewBachCodes.com)
- Notable projects include [STEMTheGap.org](http://STEMTheGap.org), [ZakForSiouxFalls.com](http://ZakForSiouxFalls.com), and [AdamJonesPlumbingAndDrainCleaning.com](http://AdamJonesPlumbingAndDrainCleaning.com).
- Created an E-Commerce solution for The Hockey Headquarters integrating BigCommerce with CounterPoint's Point-of-sale. This solution generated 700,000 impressions in 5 months leading to the multi-million-dollar acquisition of The Hockey Headquarters by Pure Hockey.

## PROFESSIONAL EXPERIENCE (cont.)

Sales Associate | The Hockey Headquarters | Sioux Falls, SD  
Painter | Daktronics | Sioux Falls, SD

July 2018 – December 2024  
January 2014 – November 2022

## EDUCATION

### Bachelor of Science: Software Development

Bellevue University, Bellevue, NE

- *Omega Nu Lambda National Honor Society*

Graduation: January 2025

Cumulative GPA: 3.86/4.0

### Associate of Applied Science: Computer Programming

Southeast Technical College, Sioux Falls, SD

- *With High Honors*

Graduation: May 2023

Cumulative GPA: 4.0/4.0

## SKILLS AND LANGUAGES

### Languages

- X++
- C#
- Java
- HTML
- CSS
- JavaScript
- T-SQL

### Frameworks

- ASP.NET MVC
- ASP.NET Razor Pages
- Blazor
- Bootstrap
- WebForms
- WinForms
- .NET CORE
- Entity Framework Core

### Enterprise & AI Platforms

- Dynamics 365 Finance & Operations
- Copilot Studio
- AI-driven test generation, workflow automation, and code analysis
- MCP Server Development
- Power BI, Power Automate

### Database Technologies

- Microsoft SQL Server
- Advanced T-SQL (stored procedures, functions, agent jobs, performance tuning)

### Call Center Technologies

- Nice InContact Studio
- Call flow design, system integrations, script creation and optimization

## AWARD

### Xerox Award for Innovation and Information Technology

- Awarded in 2012 for the exceptional use of technology to solve problems in new and innovative ways by the University of Rochester High School Awards Program.