

# Jeffrey A. Cochand

978-526-4776 [jeff@cochand.com](mailto:jeff@cochand.com) [LinkedIn](#)

[PDF Resume](#) [MS Word Resume](#) [Detailed Resume](#)

## Highly Experienced Software Developer

- 30 years implementing, architecting, designing, and managing information systems
- Skilled coder across many languages, operating systems, and hosting environments
- Quickly assimilate to implement the desired solution
- Proven innovator, team leader, and motivator as perm, contractor, and CTO
- Extensive startup experience
- Technical depth and business breadth

## Qualifications

- MS design & dev in C#, .NET, SQL Server, Entity Framework, Azure, APIs, IIS, Blazor
- Linux using AWS, MySQL, APIs, Docker, Javascript, Typescript, Python, Node.JS, Java
- DB expertise in SQL Server, MySQL, Oracle, SQLite, ElasticSearch, & MS Access
- C#, Java, C++, Visual Studio 2022, and Eclipse in Windows, Linux, or Unix
- Web/Win App & API design and dev, in AWS, Azure, and enterprise-hosted
- Financial Services, AI, NLP, Image Processing, Robotics, and 3D Graphics

## Professional Experience

### Senior Software Architect. Windows, Linux, and Cloud Developer. Team Lead.

2011 - 2024 AMG Beverly, MA

Designed & implemented software supporting AMG's \$700B AUM financial services

- Built and managed [AMG's public websites](#).
- Coded in C#, Java, Javascript, Typescript, Node.JS, and Python.
- SQL Server backend, T-SQL sprocs, and AWS VPN Transit Gateway.
- Hosted on Windows Server, Linux (RHEL & CentOS), and AWS.
- Enterprise WordPress, Adobe Experience Manager (AEM), Ektron CMS.

Built API integrations and custom apps in support of AMG staff and systems.

- A favorite project was a C# API integration of SAP SuccessFactors and AlertMedia, automating corporate alerts.
- Code handles incorrect SAP data, still integrates hourly with the AlertMedia API.
- Designed and wrote C# code for a multi factor authentication system, using the Twilio API, before 2FA was easily available.
- Used Photoshop Generative AI to enhance imagery for websites.

Built a complex SQL Server based Affiliate Reporting system.

- Both Web and WinForms front ends in .NET Framework 4.8.1
- Microsoft widgets, enhanced with Telerik RadGrid and SSRS Reports.
- Currently upgrading to Blazor.
- Used monthly by 35 AMG Affiliates and their staff for reporting \$700B AUM.

Implemented AMG's first SharePoint intranet. Coded custom Excel VBA financial apps.

- Wrote custom C# SharePoint Web Parts.
- SQL Server DB via T-SQL, WCF web svcs, BCS, and biz & data layers.
- Designed and implemented the data layer using Entity Framework.

Visual Studio most commonly used IDE, Eclipse being the second.

- .NET Framework 4.8.1, .NET Core 3.1, .NET 7, SQL Server 2012/2016
- .NET Core console apps in ActiveBatch for reliable and loggable daily jobs.
- CI/CD pipelines, including GitHub, TFS, Docker, GitLab, Maven, and Jenkins.
- GitLab pipelines, Maven, and Jenkins for continuous AEM build and deploy on RHEL to dev, staging UAT, and production environments.
- GitHub via Visual Studio plugins, after moving off of TFS.
- Docker on Windows for local development of WordPress website code.
- Linux, Windows, and SQL Server admin
- Data Extraction, Transformation & Loading (ETL) & Entity-Relationship (ER) Diagramming
- 3 years AWS website hosting, configuring ControlTower, VPN Transit Gateway, and logging & auditing in CloudTrail.
- Prototypes in Azure, but not yet production apps in Azure.
- Project mgmt as appropriate: Agile Scrum, Kanban, Waterfall, and Office 365.
- Bug tracking using O365, GitHub, Jira, Bugzilla, ServiceNow, and Wrike.
- Mostly JavaScript without Frameworks, but some Angular, React, & Python training courses and prototypes.

## Founder and Principal Software Engineer

1994 - 2011 Eagle Rock Systems, Inc. Boston, MA

Founded a software consulting company in 1994, working for 40 companies in 17 years as an architect, manager, and coder.

Please see my [detailed resume](#) that lists and expands on each engagement.

- Web & Win Forms, APIs, SharePoint Web Parts, VB.NET, VB6, and financial services apps at [AMG](#) using .NET 4.8.1, .NET Core, SQL Server, Entity Framework, Javascript, and WCF Web Services.
- A (Facebook & Twitter) SaaS website in .NET 4.0 WPF, C#, jQuery IIS 7.5, & SQL Server with an Agile dev team.
- DotNetNuke and ASP.NET eCommerce versions of <http://www.teamstudio.com>.
- Designed & built 3-tier .NET web service using Windows Workflow Foundation.
- Java & Oracle 11g FDA software medical device, to combat febrile neutropenia.
- Reverse-engineered, rebuilt, and deployed <http://www.GetTheJob.com>.
- CTO of [ModelGolf](#), an absolutely cool startup, managing and implementing [all ModelGolf technology](#).
- Built WinForms version 1.0 of the widely used [biometrics identification system](#) on an ultra mobile hardened touchscreen for the DoD/Navy.
- A dispatch call logger in C#, Javascript, ASP.NET, and SQL Server Express 2005.
- A C# Windows .NET app reading SQL Server & XML, generating Crystal Reports.
- Used Javascript to build a [water cost calculator](#) for a local municipality.
- SQL Server query optimizations, cutting execution time by 95%.

- An Educational Assessment app implemented in VB.NET, Javascript, & SQL Server.
- Java Eclipse 3.1 SWT and Swing User Interfaces.
- OEMsTrade.com, [still in use today](#), that searches for electronic components in real time.
- An auto updating website that maintains first page Google ranking.
- C# code that encapsulates a C++ dll.
- ASP.NET, SQL Server, and XML Web Services apps for web micropayments.
- An ASP, Access, C#, & SQL Server app that organizes accounts of a finance firm.
- Vortex Webinator scripts for custom Taxis SQL database tables and XML output.
- A web-crawling system that retrieves and classifies corporate financial information.
- Wrote the software for [digital time-shifting of audio that was patented](#) by our startup, Internet Angles, and used as a basis of the iPod by Apple.

## Software Engineer

1988 - 1994 TASC Reading, MA

Worked on projects from concept through delivery. Duties included proposal writing, system design, project management, software implementation, hardware integration, and customer briefing and support.

- Most projects were UNIX-based C/C++, often on Sun and SGI hardware and also on Cray super computers, PC's, and Macs.
- A passion was searching for ways to improve our system development efforts, employing early versions of CI/CD tools and IDE's.
- Wrote a ton of image processing and 3D rendering code.
- Wrote legit AI code to classify underlying soil and mineral deposits, based on water drainage patterns, observable via satellite imagery.
- Implemented Artificial Intelligence algorithms using Neural Networks and Prolog to synthesize natural language.
- Numerous training courses, conferences, and authored several technical papers.

## Volunteering

- Board Member. 2006 - Present. **Manchester Essex Conservation Trust (MECT)**. I help with Outreach, Stewardship, Land Conservation, Fundraising, Technology, and other tasks facing our volunteer Board of Trustees.
- Community Volunteer. 2020 - Present. **The Open Door**. I volunteer at various community events, such as the annual Thanksgiving food distribution event
- Community Volunteer. 2023 - Present. **Pathways to Children**. I volunteer to read and do activities with children.

## Education

### **M.S. Electrical Engineering, 1988**

Purdue University, W. Lafayette, IN

GPA: 5.5 / 6.0

Artificial Intelligence, Robotics, NLP, 3D graphics

### **B.S. Computer & EE, 1987**

Purdue University, W. Lafayette, IN

GPA: 5.6 / 6.0

Computer hardware & software