Jess Chadwick

Technologist, Agilist, Leader, and Teacher

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Areas of Expertise

Enterprise Architecture	Angular & React	Continuous Integration & Deployment
Collaborative Development	Web APIs / UI Services / REST	
Technical Evangelism	Frameworks and Dev Tooling	Distributed Source Control
JavaScript & TypeScript	Test-Driven Design & Development	.NET Framework (C#, ASP.NET MVC)

Professional Affiliations

- TechBash Developer Conference – Founder and Board Member (2016-2020)
- Lynda.com & LinkedIn Learning video course Author
- Static Void Podcast Host
- Microsoft MVP, ASP.NET (2008-2014, 2017-2021)
- ASPInsider
- NJDOTNET User Group Leader
- INETA Community Champion

Employment

Gerson Lehrman Group (GLG)

New York, NY (Remote)
November 2021 - Present

Principal Software Engineer

- Architected and implemented several new full-stack applications leveraging Node, React, and TypeScript (and react-query with react-hook-forms)
- Refactored existing business logic in frontend applications into APIs - and sometimes micro-applications - to be used by multiple applications, new and old
- Maintained a dozen existing internal applications on the Node stack with JavaScript on the frontend, most with (older) React codebases and a few using AngularJS
- Introduced extensive automated tests to new and existing codebases with a mixture of unit and integration tests, along with some UI automation using Cypress or Storybook
- Converted existing CoffeeScript code to JavaScript and/or TypeScript where appropriate
- Converted existing JavaScript applications (mostly Create React App) to vite
- Introduced the team to TypeScript and became the go-to resident TypeScript "expert" for the larger development organization

  Technologies used: *TypeScript, React, Node, AngularJS, MSSQL, react-query, react-hook-forms, vite, GitHub Actions*

CentralReach, LLC

Senior Developer & UI Team Lead/Architect

- Sole Architect and Lead Developer of brand new Single Sign-On (SSO) solution to join all acquired applications under a single platform; system supports over 100k active users with a 25ms avg response time
- Develop new features on a large SPA application using TypeScript, React, MobX
- Convert existing Knockout components to TypeScript, React, MobX
- Create POCs and lead refactoring/cleanup of existing application design and architecture

  Technologies used: *TypeScript, React, MobX, Knockout, Webpack, .NET Core, OpenID Connect (Identity Framework), Terraform, AWS stack: Lambda, SES, SNS, SQS, SMS, S3, DynamoDB, RDS (MSSQL)*

Merrill Lynch / Bank of America

Pennington, NJ
October 2013 - March 2018

Director, Sr. Technical Manager

- Represented line of business in enterprise work stream to architect a standardized fully-automated SDLC lifecycle (CI/CD)
- Manage 30-person development team (20 off-shore developers) with $3M budget
- Built and managed a 10-person DevOps team to drive successful adoption of said platform of approx. 200 development teams
- Transformed large monolithic legacy Web Forms applications to a modern client-side MVC and UI Services architecture

  Technologies used: *ASP.NET Web Forms, ASP.NET MVC, Angular 1.x/2+, NPM, JSPM, ES6, TypeScript, Microsoft Web API, Team Foundation Server, Git/BitBucket, NuGet, Jenkins, Artifactory, Ansible*

JK Group

Plainsboro, NJ
July 2013 - October 2013

Lead Technical Architect

- Lead the rearchitecture of existing legacy charitable donation and volunteer time tracking systems
- Lead a team of remote developers in implementing said systems

  Technologies used: *ASP.NET MVC, KnockoutJS, Service Stack, NServiceBus, Team Foundation Server*

Teknikos

King of Prussia, PA
October 2012 - June 2013

Software Development Manager

- Managed all day-to-day software development operations of a boutique software development firm specializing in immersive interactive experiences using devices such as the Kinect, Surface Table, and PixelSense
- Architected real-time interactive experience leveraging touch-screen technology to drive collaboration between geographically-disparate teams

  Technologies used: *ASP.NET MVC, SignalR, KnockoutJS, BreezeJS, WPF, Kinect, Surface Table, PixelSense, Team Foundation Server*

Dow Jones

Princeton, NJ
October 2010 - September 2012

Sr. Architect and RIA Specialist

- Trained existing ASP.NET Web Forms developers on the "new" ASP.NET MVC framework
- Lead Architect and developer on server-side and client-side UI framework based on ASP.NET MVC and client-side MVC
- Introduced NuGet packages to facilitate sharing of code between teams, as well as the build and hosting infrastructure to support it

  Technologies used: *ASP.NET MVC, Ninject, jQuery, Team Foundation Server, NuGet*

HomeNet Automotive (division of Autotrader.com)

West Chester, PA
August 2009 - September 2010

Sr. Architect and Team Lead

- Lead Architect on new Autotrader.com backend processing systems
- Lead various 4-8 person development teams in an Agile environment
- Managed automated builds and build infrastructure
- Introduced "Developer Achievements" development metrics gathering system and Xbox Live-like leaderboard to bring gamification to the development process

  Technologies used: *ASP.NET Web Forms, ASP.NET MVC, Ninject, Linq-To-SQL, Quartz.NET, jQuery, SQL Server, CruiseControl.NET*

Infragistics, Inc.

Princeton, NJ
April 2006 - July 2009

Website Team Lead

- Managed all production corporate web properties, internal and external (19 in total)
- Introduced automated unit testing and Continuous Integration to existing legacy codebase
- Implemented new eCommerce site built on ASP.NET and Microsoft Commerce Server with integration points via BizTalk.
- Localized entire US English marketing and customer support website to Japanese

  Technologies used: *ASP.NET, ASP.NET AJAX, jQuery, SQL Server, WCF, Silverlight, Team Foundation Server, Microsoft Commerce Server, Ektron CMS, Community Server, Enterprise Library, BizTalk, Microsoft CRM, NHibernate*

Popular Financial Holdings (Banco Popular)

Princeton, NJ
August 2003 - April 2006

Sr. Web Developer

- Maintained dynamic rule-based Commission Automation system
- Designed and implemented an intranet Employee Directory replacing Excel spreadsheet
- Documented various IT processes that were formally undocumented and misunderstood

  Technologies used: *ASP.NET, AJAX, Crystal Reports, Enterprise Library, BizTalk, SharePoint, InfoPath, SQL Server*

onTap4u

Garden City, NY
September 2002 - March 2004

Architect and Lead Developer

- Designed and brought to market an Internet-enabled electronic beverage dispenser which included various alcoholic restrictions and line level controls and interacts directly with corporate servers, periodically uploading all vital information enabling seamless delivery requests and a low-maintenance end-user appliance

  Technologies used: *ASP.NET, ASMX Web Services, SQL Server, .NET Compact Framework*

Inventa Technologies

Moorestown, NJ
September 2000 - December 2002

Software Developer

- Updated and maintained proprietary server-monitoring systems and associated administrative GUIs

  Technologies used: *ColdFusion, JSP, Taglibs, Struts, BEA Weblogic, Apache Tomcat, jBoss, Apache httpd*

Publications

Videos

Introduction to TypeScript YouTube
Free training video introducing developers to everything they need to know in order to become productive with the TypeScript programming language.

Learning ASP.NET Core Razor Pages LinkedIn Learning

Learning ASP.NET Core MVC LinkedIn Learning

TypeScript Essential Training LinkedIn Learning

Up and Running with .NET Core LinkedIn Learning
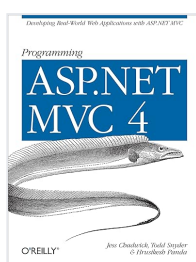
ASP.NET MVC 4 Essential Training LinkedIn Learning

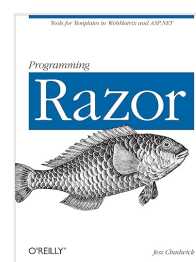**Up and Running with WebMatrix and ASP.NET** LinkedIn Learning

Books

Essential TypeScript
LeanPub, May 2016

Programming ASP.NET MVC 4
O'Reilly, October 2012

Programming Razor
O'Reilly, September 2011

Magazine Articles

ASP.NET MVC Model Binding
MSDN Magazine, February 2012

Leveraging Razor Templates Outside of ASP.NET: They're Not Just for HTML Anymore!
CoDE Magazine

Easy Validation in ASP.NET MVC with the Enterprise Library Validation Application Block
CoDE Magazine

How to Build Mobile Websites with ASP.NET MVC 2 and Visual Studio 2010
DevProConnections Magazine, March 2010

Open Source Contributions

For the full list of repositories and activity, see my GitHub profile.

- **Several contributions to Visual Studio Code**
  Contributed ability to use PowerShell as integrated terminal and set of unit tests to increase code coverage

- **NuGet Reverse Package Search** *Visual Studio Code Extension*
  Adds reverse .NET package lookup support like the "Add Package" context menu item in full Visual Studio

- **Glimpse.log4net** *log4net extension for Glimpse*
  A Glimpse extension that allows users to view log4net log messages in the browser via Glimpse.