NATE GRIGG

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EXPERT SKILLS

SOFTWARE DESIGN AND ARCHITECTURE

Nate has an intuitive creativity that is hard to come by in engineers. Combining this creativity with an uncanny knack for abstraction and a natural aversion to inefficiency helps him see connections and boundaries to make truly simple designs.

JAVA 8, HTTP, REST, HATEOS, C#, .NET

PROFICIENCIES

JAX-RS, ASP.NET MVC, MAVEN, ECLIPSE, VISUAL STUDIO, NUGET, MICROSERVICES, SCRUM, LEAN DEVELOPMENT

OVERVIEW

Nate has spent the last three years transitioning from C# and .NET to JAVA technologies. Before that he worked on all manner of .NET WEB APPLICATIONS from CMS to CUSTOM HTTP HANDLERS.

CURRENT PROJECT

Monolithic Breakup and Switch to Java

Commerce department at Ancestry

Nate is working on replacing a suite of monolithic .NET services with Java MINIservices. Aiming to build MICROservices, the team ended up building services

that were a little larger than intended. So, while breaking up the MONOLITH, Nate is also helping to break the MINIservices into MICROservices. The team also spent the last year "lifting and shifting" all of these services (MICRO, MINI, and MONOLITHIC) to AMAZON WEB SERVICES.

All this while implementing new features and helping the team raise their standards for software excellence.

Java, Spring, Maven, .NET, AWS

MOBILE PROJECTS

REST endpoint to provide mobile app with content from Sitecore Content Management System

While working to convert the main website from SHAREPOINT 2010 to the SITECORE *content management system (CMS)*, a new feature was being developed in the company's native mobile apps. Nate quickly exposed content from the CMS as JSON output so the mobile developers could deliver their feature on time.

Mobile Web Application for booking flights

Nate built a prototype MOBILE WEB APPLICATION for making airline reservations using *Navitaire's* NEW SKIES reservation system. One of Navitaire's major European customers needed a mobile booking flow *yesterday*. Nate proposed polishing the prototype web app and the customer agreed.

During the polishing project, the CEO of the Airline insisted that the mobile booking flow be accessible from ANDROID and IOS apps in the app stores. While development continued on the mobile web app, developers working for the airline built native apps with web controls to wrap the mobile web app.

Mobile Game in the Windows Phone marketplace

Nate and a friend developed and released a puzzle game to the WINDOWS PHONE marketplace. Nate found many exciting technical challenges including programming animations and subtle interactions in the WINDOWS PHONE flavor of SILVERLIGHT.

Releasing the MINIMUM VIABLE PRODUCT taught Nate and his friend a lot about PROJECT MANAGEMENT and PRIORITIZATION. While they hoped for greater success for the game, the lessons learned were well worth the effort.

SOFTWARE ENGINEERING WORK HISTORY

Senior Software Engineer, Ancestry, Inc.

2015–Present

Originally hired for the Cross-Cutting Solutions internal consulting group, Nate has worked since late 2015 on the Order Processing team in the Commerce department.

Java 8, JAX-RS, REST, Micro-Services, Spring Dependency Injection, Maven

Senior Software Engineer, Intermountain Healthcare

2014–2015

Non-Profit Healthcare Provider

Nate worked with the web team implementing the company's main user-facing web site.

Sitecore Content Management System (CMS)

Senior Software Engineer, RedBell Real Estate

2013–2014

Real-Estate Services company

ASP.NET Web Forms

Senior Consultant, Application Development, Avanade Inc.

2006–2013

IT Consulting joint venture from Accenture and Microsoft

Most of Nate's time with Avanade was spent in Professional Services at Navitaire, an airline reservations company. Navitaire Professional Services assists airlines with implementation and customization of Navitaire's reservations platform. Nate mostly worked with airline web developers customizing various aspects of their booking flow.

Software Developer in Test, Control4

2004–2006

Home-automation startup

Testing hardware and software at a home-automation startup.

Embedded Linux, C, C++, Custom Test Automation Software in C#

Software Engineer, ThoughtLab

2002–2004

Custom web applications

ASP.NET 1.0, 1.1

EDUCATION

Bachelor of Science, Computer Science
University of Utah

2002–2006

Utah State University

1997

Salt Lake Community College

1996–1998

PAYMENT PROJECTS

Russian Low-Cost Airline - 2006

The Russian Post Office provides a payment service. A simple barcode contains information to identify the unpaid airline reservation. The customer takes the barcode to the post office and pays the amount due. Then the post office will settle with the airline on the back end.

Nate developed the ASP.NET HTTP handler that would get the current booking from session state and generate the PDF with the barcode for the customer to take to the post office.

3D Secure
Various Airlines 2009–2012

The process goes like this: customer purchases something (in this case an airline reservation). At the end of the purchase flow, if the cardholder is enrolled in 3D Secure, instead of taking payment information directly, the merchant site sends purchase information to the 3D-secure card issuer. The customer is then given an HTTPS web form from the card issuer's domain where they can securely fill in the payment details.

The card issuer verifies the payment information and the amount due and then sends the customer back to the designated page on the merchant's site. The redirect GET or POST contains the original booking identifier and a payment confirmation code which the merchant can then record as proof of payment.

OTHER PROJECTS

Sitecore Migration

As a Sr. Software Engineer at Intermountain Healthcare, Nate worked to migrate Intermountain's consumer-facing sites and content from Microsoft's SHAREPOINT 2010 to the SITECORE content management system (v6.6).

Nate's tasks on the project included (but were not limited to)

- Consume web services from other systems
- Integrate those services with SITECORE
- Build custom SITECORE controls
- Export data from SHAREPOINT
- Import data to SITECORE

work in progress... more to come.