Matthew M. Martin

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<https://www.dreaminhex.com>

# Primary Skills

* **Languages:** C#, C++, C, JavaScript (vanilla, React, and Node.js), Typescript
* **Server Development**: .NET, .NET Core, .NET (latest), C#, ASP.NET, MVC, Node.js
* **UI Development**: JavaScript, React.js, Next.js, Vue.js, jQuery, Knockout, Handlebars, Mustache, Bootstrap, Zurb Foundation, Typescript, MobX, Semantic, Bootstrap, Fomantic
* **Databases**: Microsoft SQL Server, PostgreSQL, MySQL, Aurora (PGSQL & MySQL), Redshift, Couchbase, MongoDB, Redis, Elasticsearch, DynamoDB
* **Analytics**: AppDynamics, Datadog, Kibana, Splunk, Oracle Business Intelligence (OBIEE)
* **Cloud Services**: Amazon Web Services, Azure, Digital Ocean, Confluent (Kafka), MongoDB, Atlassian products
* **Source Control**: Team Foundation Server, Visual Studio Online, Git/GitHub, Bitbucket, Subversion, Star Team
* **Project Management**: Azure DevOps, Asana, MS Project, Manuscript, Jira, Team Foundation Server, Basecamp, PVCS
* **Security Training/Certificates**: HIPAA, HITECH, PCI, SOX, GLBA, PA-DSS, PCI, SOC2, NACHA, Confidential Security Clearance (US Navy).
* **IDEs**: Visual Studio (all versions), Visual Studio Code, XCode, Android Studio, IntelliJ, Postman, Lens
* **Testing**: NUnit, XUnit, Jest, Puppeteer, Playwright, Selenium
* **Other**: Object-Oriented Programming, SOLID Principles, Design Patterns, Domain-Driven Design

# Experience

## April 2023 - Present

### **Swivel, an SWBC Company** - **Software Architect -** *San Antonio, Texas (Remote)*

* **Relevant Technologies**: AWS, Azure DevOps, .NET 6-7-8, C#, GraphQL (HotChocolate), EKS, ECS, DynamoDB, PostgreSQL, Microservices, Typescript, React
* Designed Rules Engine (based off Microsoft Rules Engine, deployed as a NuGet package) to process business logic payments in real time.
* Designed Risk Management Microservice to evaluate likelihood of fraud on payments and accounts leveraging several external vendors (factory).
* Designed Alerting Microservice to allow a common alerting endpoint for all other microservices which was capable of publishing alerts to Microsoft Teams, AWS CloudWatch, or as an SNS message.
* Developed architectural pattern for building and deploying microservices with a .NET Web API or Lambda core, both a GraphQL (read) and a RESTFul (write) front end.
* Designed and deployed enterprise CDN, featuring automated minification/compression/obfuscation, checksum (integrity) validation, versioning, automated unit testing, and rapid deployment via AWS CloudFront and CDK.

## September 2021 - April 2023

### **Homepoint** – **Senior Software Architect -** *Ann Arbor, Michigan (Remote)*

* **Relevant Technologies**: Azure, .NET Core, .NET, C#, Java, GraphQL, Kubernetes, Mongo, Git, PostgreSQL, Microservices, Typescript, React, Kafka (Event driven architecture)
* Engineer for back-end systems utilizing GraphQL, Kafka streams, and .NET Core and .NET 5-6 microservices hosted in Azure (Kubernetes)
* Some crossover work updating and extending our Java services
* Lead developer of our user-experience layer, an application written in Typescript which leveraged GraphQL tools for displaying queryable and mutatable models with a Mongo back end
* Lead engineering manager over the UI/UX team for “Apex” (React, Typescript)
* Developed detailed monitoring and notification system using Datadog, OpsGenie, and Azure for system observation and management

## May 2020 - September 2021

### **RF-SMART, A Division of ICS** – **Software Architect**- *Jacksonville, Florida*

* **Relevant Technologies**: .NET, AWS, ASP.NET & .NET Core 3.1, .NET 5, C#, AKS, DynamoDB, MSSQL, TFS, Bitbucket, Infrastructure-as-code, Redis
* Architect for Point of Care healthcare solution for EMR and SCM integration written using ASP.NET 5.0, MVC, and deployed to AWS using containers (ECR & ECS) with an Oracle back-end
* Developed CI/CD deployment using CodeBuild, CodePipeline, & CodeDeploy in conjunction with TFS
* Implemented containerized (Docker, microservice) architecture to leverage pure CI/CD for Point of Care application
* Developed “Infrastructure as Code” (IaC) strategy leveraging Amazon’s Code Deployment Kit
* Lead engineer working on a warehouse management system, originally ported from Microsoft Dynamics AX, now maintained in C# and MVC (ongoing development)
* Two-time winner of “Days of Innovation” award for technical development
* Lead the Testing Guild, a group formed to define requirements for Test-Driven Development

## May 2018 - May 2020

### **CentralReach** - **Senior Software Engineer –** *Pompano Beach, Florida (Remote)*

* **Relevant Technologies**: .NET, AWS, ASP.NET & .NET Core 3.1 with C#, .NET 5, React/Redux, Typescript, Redshift, MySQL, Git
* Worked on maintenance team to identify, correct, and fix defects in practice management software leveraging React, Vue, Typescript and Amazon Redshift
* Worked with DevOPS team to develop supporting AWS infrastructure for ongoing operations
* Implemented IAM/SSO (C#/.NET 5 Microservice) solution to unify logins across multiple platforms
* Orchestrated offshore team to do continual releases of the mobile applications to iTunes, Google Play, and the Amazon Store for the React/Vue/Typescript web application
* Contributed to .NET API work to support both web and mobile applications
* Assisted in interviewing team members for Clinical, Practice Management, Engineering Ops, and Mobile

## January 2017 - May 2018

### **iMobile3 (A TSYS Company)** - **Practice Director** - *Jacksonville, Florida*

* **Relevant Technologies**: Azure, Android Studio, XCode, iOS, Android, Elasticsearch, Git
* Oversaw and managed multiple new and ongoing mobile (iOS and Android) projects for clients
* Assisted in ongoing development of project planning and sprint management
* Worked closely with project managers, engineers, and quality assurance to organize, plan, execute, and release software
* Managed and reported project health, financials, project status, budgets, and resource planning to the CTO and CEO
* Served as technical liaison between development staff and clientele, offering architectural guidance and mentoring mobile application engineering efforts
* Developed analysis services using Elasticsearch for real time reporting of point-of-sale transactions and loyalty transactions
* Constructed and led technical laboratory to test software on new and existing in-field hardware to support clients

## December 2014 - December 2016

### **Forcura** - **Director of Engineering -** *Jacksonville, Florida*

* **Relevant Technologies**: .NET, AWS, ASP.NET MVC & .NET Core 3.1 with C#, .NET 5, Elasticsearch, MSSQL, PostgreSQL, jQuery, JavaScript, Windows Forms, OCR, TFS
* Led a team of engineers to develop a document management, workflow, and communications ASP.NET/.NET Core web application, reporting directly to the CEO (www.forcura.com)
* Leveraged Amazon Web Services for 100% of all company technology, including RDS, SQS, SNS, Elasticache, and Elasticsearch
* Worked with onshore and offshore mobile developers to conceptualize, design, and build a mobile application in both iOS and Android to assist the healthcare industry with communication and document management
* Developed real-time OCR capabilities, enabling field users to photograph and upload documents with their device, have them processed in near-real-time using OCR, and indexed with Elasticsearch.
* Company recognized locally two years in a row for Best Use of Cloud Computing

## September 2014 - December 2014

### **HomeASAP (N-PLAY)** - **Director of Product Development -** *Jacksonville, Florida*

* **Relevant Technologies**: C#, .NET, Azure, Digital Ocean, Elasticsearch, JavaScript, .NET Web APIs
* Led and worked with design, mobile, and UI/UX teams to develop an amazing, responsive web user experience for home search, reporting directly to the CEO (www.homeasap.com)
* Established an import process to load MLA and IDX data directly into Elasticsearch for rapidly searching geocoded addresses (e.g. all homes in a particular radius, region, state)
* Assisted the mobile developers with integrating their applications with Elasticsearch to provide a similar experience on the mobile platform

## October 2013 - September 2014

### **Fanatics** - **Software Architect -** *Jacksonville, Florida*

* **Relevant Technologies**: C#, .NET, ASP.NET, MSSQL, Elasticsearch, Couchbase, jQuery, JavaScript, Handlebars
* Implemented multiple production Elasticsearch clusters to enable rapid, real-time searching of products, logs, orders, inventory, teams & players and customers
* Led team to resurrect legacy product administration software and redesign to use new, responsive platform
* Authored UI architectural standards and samples for creation of in-house applications using Foundation
* Developed repository for code documentation using Sandcastle
* Led team to develop user-driven customizable products on production website(s)
* Developed strategy to route and authorize all internal API resource requests using federated RESTful services written in C#/.NET

## March 2012 - October 2013

### **DMEAutomotive (Autopoint)** - **Software Architect -** *Jacksonville, Florida*

* **Relevant Technologies**: C#, .NET, ASP.NET MVC, MSSQL, Elasticsearch, jQuery, JavaScript
* Assisted in all aspects of UI usability and design for client platform (ASP.NET MVC)
* Designed and built targeting marketing platform email and print campaigns
* Managed implementation of WCF REST APIs for the native mobile site
* Implemented push notifications, alert monitors
* Streamlined CI/CD build and deployment processes using TeamCity
* Interfaced directly with C-level management for project status updates

## October 2011 – March 2012

### **MDI** - **Senior Software Architect –** *Ponte Vedra, Florida*

* **Relevant Technologies**: C#, .NET, ASP.NET MVC, Oracle Business Intelligence, MSSQL, Silverlight, jQuery, JavaScript, HTML5
* Developed HTML5 client portal showing chronic diseases on a graphical representation of a human body with layers for each level of human anatomical systems
* Aggregated all claim data to allow for client scoring based on ICD-9 diagnostic codes
* Worked with other data scientists to develop, tune, and maintain the predictive analytics engine

## December 2007 - October 2011

### **Oceanside Ten** - **Principal Software Architect**

* **Relevant Technologies**: C#, ASP.NET Webforms, .NET, MSSQL, jQuery, JavaScript
* Developed high volume, high availability market research panel sites, using same code base with varying URL-based branding.
* Developed in-house marketing and management application to run market research studies and send email.
* Designed and developed in-house high-volume email client UI.
* Designed and developed demographic list engine to match over 1 million prospective clients with applicable surveys.

# Education

## 2001-2004

### **Florida State College at Jacksonville**, Jacksonville, Florida

Major, Computer Science, Minor, English Literature

## 2000-2001

### **Saint Johns River State College**, Saint Augustine, Florida

Major, Computer and Information Sciences

## 1996-2000

### **United States Navy**, Various Locations, Honorable Discharge

Nuclear Field “A” School, E-4, Machinist’s Mate 3rd Class (CBE), NMCB 7

# Publications

## May 2023

### Application of Benford’s Law to US Election Results

<https://www.dreaminhex.com/articles>

## June 2016

### Data Security and Accessibility in Healthcare

<https://www.forcura.com/blog/data-security-and-accessiblity-in-healthcare>

## March 2016

### Forcura: Setting a New Healthcare Paradigm with Elasticsearch

<https://www.elastic.co/videos/forcura-setting-a-new-healthcare-paradigm-with-elasticsearch>

## April 2014

### Annotate.js, Codeplex

<https://www.nuget.org/packages/Annotate.js>

## November 2013

### Elasticsearch on a Raspberry Pi

<https://www.dreaminhex.com/articles/elasticsearch-on-a-raspberry-pi>

## September 2013

### Cadence.NET: A .NET Scheduling Framework

<https://www.nuget.org/packages/Cadence.NET>

# Professional Organizations

#### Big Data Jax

SPEAKING MEMBER

<https://www.meetup.com/jaxbigdata>

#### Northeast Florida Project Management Institute

MEMBER

[http://www.pmi-nefl.org](http://www.pmi-nefl.org/)

# Events & Appearances

## February 2017

### Understanding QueryDSL and Elasticsearch Analytics

Big Data Jax, Jacksonville, Florida

## July 2016

### Data Protection, Cyber Security, and HIPAA

[National Association of Homecare and Hospice, Las Vegas, Nevada](https://hcu.academy.reliaslearning.com/Data-Protection-Cyber-Security-and-HIPAA--16FM503.aspx)

## August 2016

### Secure, Scaled, Real Time Search and Analytics in the Cloud

Code on the Beach, Jacksonville, Florida

## March 2016

### Setting a New Healthcare Paradigm with Elasticsearch

[Elastic{ON}, San Francisco, California](https://www.elastic.co/videos/forcura-setting-a-new-healthcare-paradigm-with-elasticsearch)

## January 2015

### Utilization Strategies in Cloud Computing

Jacksonville Drink & Think, Jacksonville, Florida

## August 2014

### Responsive Design with Zurb Foundation

Jacksonville Drink & Think, Jacksonville, Florida

# Awards

## March 2021, April 2021

### RF-SMART Days of Innovation Winner

* **February 2021** - Developed framework for synchronizing DynamoDB with Elasticsearch via Lambda expressions, implementing a real time movie search and automated movie poster search bot
* **May 2021** - Developed “vanilla” JS (ES6) application (“SyncFlow”) to sync XML, JSON, and YAML in real time editors, and generate C#/SQL code based on the object models

## June 2015, June 2016

### Best use of Cloud Computing

Jacksonville Business Journal (two-time winner)

* <https://www.bizjournals.com/jacksonville/print-edition/2015/10/23/best-use-of-cloud-computing-forcura.html>

## September 2007

### Article of the Month

Codeproject. “[ASP.NET Page Lifecycle – A Basic Approach](https://www.codeproject.com/Articles/20659/The-ASP-NET-Page-Lifecycle-A-Basic-Approach)”

# Professional References

* **David Haney**
  + **Principal Architect,** *Cartwheel.io*
  + Former **Engineering Manager***, Stack Overflow*
  + Email: [*david.a.haney@gmail.com*](mailto:david.a.haney@gmail.com)
* **David Shelton**
  + **Principal Architect**, *Greenshades Software*
  + Email: [*twodave@gmail.com*](mailto:twodave@gmail.com)
* **Gina Lynch**, PMP, MBA
  + **Director, IT Processes,** *Chesapeake Utilities Corporation*
  + Former **COO Operations and Technology**, *Step Up for Students*
  + Email: [*g.lynch0527@gmail.com*](mailto:g.lynch0527@gmail.com)
* **Tim Wright**
  + **Vice President of Engineering***, Fanatics, Inc*
  + Email: [*twrightdev0101@gmail.com*](mailto:twrightdev0101@gmail.com)
* **David Talbot**
  + **Director, Product Engineering**, *Paze*
  + Former **VP of Architecture and Strategy**, *TIAA*
  + Email: [*david@legendarycode.com*](mailto:david@legendarycode.com)
* **Schuyler Salz**
  + **Senior Business Intelligence Analyst**, *The Energy Authority*
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