

Gregory Read

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Summary

When you work with me, I want you to think this is the best place you've ever worked and that you've grown more than you ever thought possible.

Skills

Languages

- Proficient in C#, SQL
- Additional skill set in JavaScript, TypeScript, Powershell, Rust, Scala

Software

- Database: MS SQL Server, Azure SQL, Cosmos DB, Sybase, Redis, Dgraph, Spark, Databricks
- Frameworks: .NET Framework, .NET Core, Web API, MVC, Entity Framework, Dapper, Angular, Linq, JSON, Docker, RocksDb
- Servers: IIS, SSIS, Graylog, IdentityServer, Linux, Solr, Elasticsearch, Envoy, Kafka, Prometheus, Grafana, Jenkins
- Testing Tools: XUnit, Fixie, Shouldy, Moq, Autofixture, Artillery.io, JMeter, ScalaTest, ScalaMeter, Gatling

Cloud Technology

- Azure: Azure DevOps, Service Bus, App Service Plans, Web Jobs, App Host Plans, Logic Apps, Storage Accounts, Azure Maps, Application Insights, ARM Templates, Azure CLI, Virtual Networks, Network Security Groups, Key Vault, Virtual Machines
- AWS: EC2, S3, CloudFront, Route 53, IAM

Productivity Tools

- Visual Studio 2019, Visual Studio Code, SQL Management Studio, Git, Postman, Chocolatey, ReSharper, DbUp, IntelliJ, Gradle, Jupyter Notebook

Industries

- Medical: HL7 FHIR, CQL, ELM
- Non-profit, Sports, Banking

Experience

Software Development Manager, Direct Care Innovations

Jacksonville, FL— Nov 2021 - Present

Responsibilities

- Manage a team of developers in a newly formed product group.
- Lead a software team in using best-practices in code and agile methodologies.
- Reduce production bugs and reduce monthly Azure spend.

Accomplishments

- Expanded a team of three developers to nine while taking over all vendor code.
- Reduced bugs (and complaints) in our mobile application.
- Assisted the DevOps team with pipelines and deployments.
- Reduced our monthly Azure spend by fixing poorly-performing queries and right-sizing resources.

- Reduced technical debt by using the Strangler pattern to safely eliminate legacy code.
- Started automated testing in Cypress.io to help eliminate our QA bottleneck.
- Increased sprint velocity by helping product owners write better stories by collaborating with developers.
- Migrated a fragile Python application to a .Net microservice to increase reliability and security.

Technologies used

.Net, Azure, Docker, Nuxt, Cypress, Jenkins, Cordova, Ionic, Azure DevOps, Jira, Serilog, Logz.io, Blazemeter

Solutions Architect, Carrera Group

Jacksonville, FL— Sep 2020 - Nov 2021

Responsibilities

- Help clients architect and implement solutions using open source technology to meet their needs in the high-performance computing space.
- Mentor junior developers and teach best-practices.

Accomplishments

- Helped take a fledgling Clinical Quality Language (CQL) evaluation engine into production. This engine parsed CQL and executed it faster than any existing solutions so we could support a Clinical Decision Support system.
- Created a proof-of-concept HTTP proxy that could filter content responses at wire speed.
- Helped hire and build a team of developers to meet the challenges of a large client.

Technologies used

Scala, Docker, Kafka, Prometheus, Grafana, RocksDB, Databricks, Scala Test, Gatling, Envoy, Rust, Linux

Software Development Manager, Step Up For Students

Jacksonville, FL— May 2019 - Sep 2020

Responsibilities

- Manage a department of 8 developers responsible for maintaining legacy applications, developing features, architecting new systems, and supporting production systems. Developers were spread across multiple product teams and were required to handle production support issues for their products.

Accomplishments

- Changed developer meetings from gripe sessions to productive collaborations by using a novel meeting style called “Lean Coffee”. This agenda-less meeting allowed us to explore topics and easily share knowledge with an agreed time limit. Our exploration resulted in setting up a DevOps and Test Automation guild as well as implementing new tools like DbUp.
- Partnered with our Infrastructure team to implement zero-downtime releases to production. This involved modifying our release pipelines to play nicely with our load balancer. In addition to eliminating downtime, we saved over 40 man-hours a month babysitting late-night releases. Our production releases are now scheduled during the day and complete without drama.
- Mentored 4 junior developers with weekly one-on-one sessions to improve their skills and get them promoted. I helped find them assignments that would expose them to new technology and skills so they could continue their growth.
- Helped new developers get their projects running on our CI/CD infrastructure by pairing them with veteran developers. All of our products, from .Net to WordPress, flow through over 100

CI/CD pipelines so we can automate our releases.

- Used load testing to prepare for high traffic seasons (over 1 million requests per day). Load testing exposed weak points, e.g. missing database indexes, expensive queries, port exhaustion. The load tests showed where we needed to scale our resources.

Technologies used

Azure DevOps, Azure SQL, Logic Apps, Artillery.io

Senior Software Developer, Step Up For Students

Jacksonville, FL— Jul 2016 - May 2019

Responsibilities

- Lead a team of 5 developers to modernize the scholarship intake process. This application is responsible for over 150,000 students applying for scholarships.
- Modernization included moving all new development to Azure, changing our technology stack from Web Forms to Angular, and implementing OAuth2 for security.

Accomplishments

- Created a production Graylog server in Azure and integrated authentication with our AD. Our Graylog server handles over 40 million messages a month.
- Increased log visibility by moving logging in legacy applications from Sql Server to Graylog. This reduced the load on the database and enabled non-developers to search our logs for issues. More visibility allowed us faster troubleshooting of production issues.
- Reduced our cloud spending by partnering with our Infrastructure team to move our Azure resources to a lower cost Dev/Test subscription. Further reduced costs by using Redis to cache expensive calls to Cosmos DB saving us over \$100 a month. Our success with Redis prompted us to use it in other places to improve performance.
- Reduced code defects by writing unit tests and taught other developers unit testing principles. Created over 1,200 unit tests covering our most critical business logic, our covered code never fails regression testing.
- Improved release cycles by creating a Feature Switch library to allow us to tackle large features that spanned multiple sprints.
- Increased team efficiency by writing internal tools to speed our database setups and easily create clients and scopes in IdentityServer.

Technologies used

Web API, MVC, .Net Core, .Net Framework, Entity Framework, Dapper, IdentityServer, Angular, Graylog, XUnit, Fixie, Dependency Injection, Polly, AutoMapper, Linux, Azure DevOps, Cosmos DB, Azure SQL, ServiceBus, Redis, ARM Templates, App Services, WebJobs

Senior Developer, ATP Tour Inc.

Ponte Vedra Beach, FL— Jan 2011 - Jul 2016

Responsibilities

- Ensure the success of our \$40 million dollar data distribution contract by creating technical tools and then training officials and tournament personnel.
- Support the atptour.com public website so it performs under heavy load. Create feeds from historical data to power a website upgrade.

Accomplishments

- Gave new insights into historical data by building a new web service layer for the atptour.com website. SSIS was used to ETL historical tennis data from Sybase to a MS SQL data warehouse.

- Decreased the load on our origin servers by using HTTP cache-control headers so the CDN could base its TTL rules on the max-age. I used the IIS URL Rewrite Module and Outbound rules to accomplish this.
- Eliminated cache inconsistencies across origin servers by migrating the Sitecore CMS indexes from Lucene to a SolrCloud implementation that utilized a ZooKeeper ensemble.
- Improved our data accuracy by developing a tracking system to monitor umpire scoring accuracy and data loss. This tracking system gave real-time access to officials and greatly improved our data distribution product.
- Setup a Jenkins server to automate the build and deployment for .Net projects. I used Gulp to automate the build, run unit tests, increment the version, and deploy artifacts.

Technologies used

Asp.Net, Web API, .Net Framework, Entity Framework, SQL Server, SSIS, IIS, Solr, ZooKeeper, Linux, Jenkins, Dependency Injection, NUnit, AutoMapper, CDN

Programmer/Analyst, Jacksonville Jaguars

Jacksonville, FL— May 2000 - Dec 2010

Responsibilities

- Support the Scouting department and automate tasks to give Scouts more time to write evaluations.

Accomplishments

- Reduced the setup time for draft meetings from days to hours by creating a web based draft board using ASP.NET and jQuery to replace an antiquated system of paper labels and magnets.
- Improved Scouts' efficiency by modernizing our scouting application. I used .Net to give a unified interface by combining the functionality of separate apps that were written in J++, VB6, Delphi, and MS Access.
- Developed an encryption and audit solution for PCI Compliance using MS SQL 2005.

Technologies used

Asp.Net, .Net Framework, NHibernate, SQL Server, SSRS, IIS

Education

Florida State University

B.S., Physics

Continuing Education

Azure

Azure Fundamentals: [990131728](#)

Azure Developer Associate: [H857-0159](#)

AWS

[AWS Cloud Practitioner Essentials](#)

Apache Kafka

Confluent Certified **Administrator** for Apache Kafka: [33129685](#)

Confluent Certified **Developer** for Apache Kafka: [32844230](#)

Passions
and
Hobbies

Service work

- Mentor for [Senior Projects](#) in the School of Computing at the University of North Florida
- Volunteer at The Pulse Ministries

Technology

- F#, Kubernetes, JavaScript game programming

Exercise

- Running, backpacking, scuba diving