

Matthew Grose

Developer, Student, Mentor, Leader.

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github.com/tiny-dancer

EXPERIENCE

Optum - UnitedHealth Group, Eden Prairie, MN

Software Engineering Manager, Architect

Feb 2016 - Present

- Hands on manager for 15 engineers in 3 cross-functional teams involving development, quality, devops, and site reliability.
- Responsible for the full software lifecycle and production quality of Optum's portal and developer enablement platform with 1 million users.
- Led migration from a monolithic single datacenter VM architecture to a distributed, service oriented multi-datacenter architecture utilizing spring boot, netflix oss, kubernetes, prometheus and AWS Route 53.
- Focused on front-end code reusability and visual consistency through a team created component library utilizing react, styleguidist and storybook.
- Increased UX/UI efficiency and collaboration by migrating from Photoshop and emails to Sketch, Zeplin, and team chat.
- Evolved devops and site reliability maturity within the teams. Production incidents decreased 150%, performance improved and user story cycle time was reduced from over 1 month to 5 days.
- Teams transitioned to amongst the higher respected across the company as we continue to push boundaries and evangelize best practices with others

Senior Full Stack Software Engineer

Sept 2015 - Feb 2016

- Leading code contributor, reviewer and architect utilizing a spring boot, mysql, angular 1 and jenkins stack.
- Led angular 1 code refactor to John Papa's style guide.
- Led spring boot refactor to utilize dependency injection patterns, mocked unit testing and a Repo/Service layered architecture.
- Introduced pull request based development and automated testing utilizing Jenkins 1 Delivery Pipeline plugin as a full CI/CD pipeline.

SKILLS

Full Stack Developer

Backend

Java/Groovy
Spring Cloud Netflix
.NET
NodeJS

UI

Angular
React
Atomic Design

DB

MySQL & MS SQL
MongoDB

Lean DevOps

Agile
CI/CD
Jenkins 2, Pipeline as Code
Atlassian Bamboo

Containers

Kubernetes
Openshift 3 (OCP)
Docker

AWS

Object Oriented Design

SOLID

Automated Testing

Testing Pyramid
Unit to UI Tests
Load Testing
Visual Testing
Security Testing

Authentication

OpenId Connect
OAuth 2
SAML 2.0

Authorization

RBAC & ABAC

Git

Life Time Fitness, Chanhassen, MN

Development Team Lead

Oct 2014 - Sept 2015

- Leading code contributor, reviewer and scrum leader on a .NET Web API, MS SQL, Angular 1 and Atlassian team.
- Led redesign to an “API First” Web API + Angular stack, also enabling other teams to consume our data.
- Transitioned to pull requests, Git Flow and automated testing.
- Learned CI best practices and led implementation for several teams, including mobile Xamarin team utilizing Atlassian Bamboo.

Full Stack Developer

June 2013 - Oct 2014

- Quickly ramped up on each tier of a 3 tier stack utilizing MS SQL, .NET MVC, and JQuery.
- Led Angular 1 replacement of JQuery.

INNOVATIONS LEADING TO COMPANY-WIDE INITIATIVES

Optum - UnitedHealth Group

Static Single Page Applications, “Serverless UI”

- Primary developer and architect of Optum’s latest UI architecture utilizing Angular/React, CDNs, S3 Storage, and Jenkins Pipelines.
- Sparked the first widely-accepted continuous daytime, peak hour deployments within Optum via its blue/green deployment pipeline.
- UI performance and reliability greatly improved while cost dropped significantly.
- Shortly after initial rollout, leadership recommended this architecture company-wide.

Jenkins “Pipeline as Code”

- Primary developer and architect of two library based pipelines utilizing Jenkins 2 groovy DSL.
- The API pipeline library was rolled out to several teams and led to the foundation of successfully supporting a microservices architecture and 30,000+ deployments over 6 months.
- After creation, I evangelized the beneficial use of these reusable pipelines across the company through cross-team engagement and speaking at various internal events and opportunities.
- Played a vital role in Optum creating a dedicated “Pipeline as Code” CoE team as adoption grew.

Tools

Jenkins
Keycloak
New Relic
Splunk
Atlassian Stack
Github Enterprise
Blazemeter
Hubot
SonarQube
Sauce Labs
HP Fortify
Contrast Security
WebPageTest
Zeplin

Languages

Primary
Javascript
Typescript
Java
Groovy
NodeJS
.NET C#

Experimented With
React-Native
Kotlin
Golang

Influential Books

Lean Startup

Eric Ries

Continuous Delivery

Jez Humble, David Farley

The Art of Unit Testing

Roy Oshero

Building Microservices

Sam Newman

The Phoenix Project

Gene Kim and others

Dependency Injection in .NET

Mark Seemann

How To Win Friends &

Influence People

Dale Carnegie

ChatOps - Automating Production Releases

- Drastically minimized manual work in delivering compliant releases through chat-automation with hubot and ES.Next.
- Chatbot features include data-aggregation from several tools and the deploying of multiple services in order of defined dependencies.
- Worked across several organizations and an external auditor.
- Estimated 175% cost savings per release.
- Presented solution to thousands of technologists at an organizational town hall.

EDUCATION

Univ. of Minnesota Duluth — MIS & Finance B.B.A

Sept 2008 - May 2013

Graduated with two majors: MIS & Finance, and one minor: Accounting.

Vaxjo University, Vaxjo, Sweden

Jan 2010 - Jun 2010

A semester focusing on international communications and culture.