Thomas Edstrom
Solution Architect / Lead-Sr. Full-Stack Developer

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Professional Statement

I begin with the big picture. I end with the execution and implementation of highly performant teams. My work encompasses detailed design patterns, hands on development, coaching, and mentoring, and I thrive in enabling people to create and grow world-class, globally distributed systems. I am tenaciously fast and stubbornly optimistic in all that I do. I excel where others flounder, and I have a strong track record of exceeding expectations when even base requirements were said to be impossible. I am known for taking on the worst performing projects and teams and bringing them up to gold standards.

Professional History

CANYON TRAIL CONSULTING *(Topographic) Dallas, TX*

Freelance consulting for SME application design and implementation.

Sub-Contracted Architect – Aug. 2020 – Current

Full-stack green-field development for time-tracking/invoicing/customer-project-management infrastructure for Topographic, a national land surveying company. Built on GCP, using CircleCI with Pulumi on Docker with .Net core, React, TypeScript, GraphQl, and Material.io themed. The project followed a strict TDD process (using NUnit and Jest.js) along with DDD and CQRS architecture styles, using Storybook.js to support atomic design.

CENTAURUS CONSULTING *(Qentelli) Dallas, TX*

Hyderabad based consulting firm focusing on digital transformations and the automation of all technologies.

Lead Solution Architect – Jan. 2020 – Aug. 2020

Drove design, organization, mediation, and consultation at all levels across all companies involved in the SOW's execution. Accountable for all technical architectural aspects of the project including design, documentation, presentation, review and ultimate sign off of key deliverables. Responsible for delivering a workable product within 4 months (~2 months past its deadline) that was reportedly 8 months in and 8 months behind schedule. My work was best defined as honest evaluation of facts and negotiating difficult conversations that lead to optimal mutual benefit for all parties involved including parent companies/3rd party stakeholders and the organization as a whole; focused on technology however centered on people.

I started by designing and negotiating the domain segregation and data models for a re-write of a monolith platform involving massive hand-rolled, business configurable logic into a multi-tenant, micro-service architecture based primarily on AWS however intentionally designed to be cloud-native/agnostic and deployable in multiple configurations including on prem and with hybrids of cloud components. I therefore was intentionally heavily involved in the DevOps design and implementation of our CI/CD process and ultimately I designed the system to be phoenix like in nature at every level possible.

I designed the inter-service communication to be event-driven using Kafka alongside Drools and Airflow with intentions to move to an ACID 2.0 paradigm if possible with GraphQL and GRPC/Avro prototypes being worked on in the background for expanding end-client-developer consumption of platform level services.

I designed and implemented MS Identity Server 4 using OIDC Connect with PKCE flow authentication (from scratch since the original js OIDC library was primarily based on Angular and I didn't have time to deconstruct it to create the Vue version). I was equally accountable for establishing the optimal migration path for highly customized clients of the legacy system onto the new platform following a general 95% backwards compatibility with current API's including multilingual support.

I formed, acted as Product Owner and Manager, and grew the architecture team from myself to 12 people over the course of my tenure while our feature teams grew from 40 engineers to 130+. I invested in outlining hiring criteria spanning IQ/EQ and covering core architecture/engineering principles.

I created and maintained our LucidChart license where I created ~20 designs (~50 diagrams in total) that now live in permanent documentation, and I created custom content as needed for production UX. I standardized our middleware usage across all services with heavy documentation, revamped our Swagger implementation, and enabled mandatory TDD training for all engineers.

YPO *Dallas, TX*

A global social networking organization comprising membership of CEO's from around the world.

Head Architect – Oct. 2019 – Jan. 2020

Redesign and implementation of core architectural designs and strategies, focused on event-driven and micro-service patterns. Restructuring and overseeing both on and offshore teams. ~2.5 months working in Hyderabad with 50+ engineers across 7 teams. Running scrum for the core Architecture Team while setting up and growing the Innovation and offshore Management Teams. Worked with 3rd party to integrate with Adobe Prime LMS, design/setup of AB UI testing, documentation of current systems and re-architecting of integration points.

Team Lead – Oct. 2018 – Oct. 2019

Coached, mentored and built teams of 4-8 engineers at a time (plus ~2-3 QE, product owners, and scrum masters). ~2 Months in Hyderabad, India on-boarding 30+ engineers. Technical advisor and designer of Microsoft Azure solutions. ~1 week in Cape Town, South Africa presented, demonstrated, and explained our globally distributed social networking platform at our Global Leadership Conference to 3,000+ CEO's of companies from around the world. Worked closely with Microsoft teams researching Microsoft best-practices within the Azure Cloud. Set up key processes in branching, CI/CD, blue/green/slots, setup of code quality and analysis using SonarCloud/Qube and ReSharper, CosmosDB migration to Azure SQL, DB design, maintenance and optimization of our recommendation engine (dynamic SQL through stored procedures, views, synonyms, and functions), migration of Azure Functions V1 to V2 on .NET Standard and .NET Core 2.1, Azure Search optimization, SSO for multiple third parties while continuing LDAP to Okta migration, POC creation across a host of technologies, and UX design.

Web Application Developer – Oct. 2017 – Oct. 2018

Facilitated cross-functional projects to develop and enhance new and existing applications to improve and expand YPO technological capabilities. Direct involvement with the development lifecycle, including planning, designing, and leading projects. WCF migrations to Restful API's using Azure Functions V1 using .NET 4.7, Solr search optimization, migration from Solr to Azure search, Matrix chat implementation, Azure EventGrid and ServiceBus setup, CosmosDB using their Gremlin and Cassandra

API's, migration from LDAP to Okta using federated authentication, ETL processes through Azure Data Factory for multiple 3rd party data synchronizations including Salesforce, Teligent, and Cvent, setup mobile notifications via FireBase, web notifications via SignalR, email notifications via SendGrid, and setup of GoogleAnalytics.

MATRIX RESOURCES & TE CONSULTING Dallas, TX

A mixture of free-lance consulting and working on projects with Matrix. Because of overlaps in timing, both are in this list.

VariVerge Mail Sorting (MATRIX) – Jan. 2017 – Oct. 2017

Adapted an internal work flow management platform to an online customer portal. Setup of email distribution using SendGrid and Razor templating. Real-time notifications using Azure SignalR. Setup synching with USPS API's for parcel tracking and displaying progress through the UI. Consolidating React and Angular components in the UI to use Knockout. UX design and mockups using Sketch and Invision.

D'Andra Simmons (Real Housewives of Dallas) – June 2017 – July 2018

Partial migration from Shopify (Ruby based Liquid templating) to Wordpress. Absolute end to end including contract creation/negotiation, UX analysis/design/mockups/revisions, migration to Wordpress (with continuing integrations to Shopify), WP plugin selection/creation/modifications, incorporated SMACSS, created build environments via webpack (and npm scripts) using Sublime/Brackets/VSCode, hosted via GoDaddy, NameCheap, and finally Azure, using Nginx and DNS configurations.

Norrell Construction (MATRIX) – Mar. 2017 – July 2017

SOW revisions, UX design/revisions, work on WP implementations, plugins, and SCSS using SMACSS, creation of multi-stage testing environments and CI/CD through Docker and Dokku. Migration from an on-prem Wordpress instance to hosting on Azure. DNS setup via NameCheap, MailChimp integration for marketing campaigns.

Full-Stack Consultant II (MATRIX) – Dec. 2016 – Oct. 2017

Consulted on client needs, SOW and contract creation and negotiation, UX mockup creation/revisions, identification of ideal technology stacks with corresponding design and implementation, and end-to-end execution. Stacks included MEAN, Wordpress, Shopify, and especially .NET with MVC/Angular/React/ Knockout implementations for our larger clients.

Yellow 7 – Nov. 2016 – Dec. 2016

UX design and Wordpress development for Mindstream (an online marketing company). Asset creation, WP plugin creation heavily using roots.io, offered full-time before end of contract

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Education

Coding Dojo – *July 2016 – Oct. 2016* Dallas, TX

Participated in coding boot-camp covering 3 full-stacks (Python/Pylot/Django/Flask, Ruby on Rails, MEAN) over 3.5 months. Chosen for being the most rigorous boot-camp available at the time. I am currently still the only alumni (4,500+ nationally) to have ever graduated with honors for completing all exams with perfect scores (top 1-5% for that piece) and then also teaching myself additional frameworks that were not in the curriculum and completing exams perfectly with them.

Belmont University – *July 2007 – Dec. 2009* Nashville, TN

Bachelor of Science in Audio Engineering Technology

Technologies

Microsoft Azure: Azure SQL, Functions, Data Factory, SignalR, EventGrid, Service Bus, Azure Search, CosmosDB, API Management, Traffic Manager, Application Insights, Azure DevOps CI/CD Pipelines, ARM Templates, Key Vault, Blob Storage

Database/ORM: SQL (SSMS), EntityFramework/ADO.NET/Linq, MySQL, CosmosDB (SQL, Gremlin, Cassandra), MongoDB, Redis, Postgres

Identity: MS Identity Server 4, LDAP, Okta

Network/Servers/PaaS: Azure, Kudu, Docker, Dokku, Heroku, Nginx, Windows, Apache

Back-End Languages: C#, Python, Ruby, PHP

Back-End Frameworks: .NET 4.5/Standard/Core/MVC/WCF Services, Django/Flask, Express.js (Node), Ruby on Rails,

Front-End: React, Angular, Knockout, Vue.js, JQuery, Lodash, ApolloClient, Ajax, Moment, Google Analytics, WordPress, GraphQl/ApolloClient, Typescript

Testing: MSTest, NUnit, XUnit, Moq, NBuilder, Jest.js

Email: SendGrid, MailChimp, Razor

WebSockets: SignalR, Socket.io

Version Control: TFS, Git, Azure Devops, Github, Bitbucket

Design: Sketch, Invision, Photoshop, Illustrator, StoryBook.js, Material.io

CSS: Bootstrap, Foundation, SASS, LESS, SMACSS, BEMS

Pre-Compilers/PackageMGMT: Gulp, Grunt, Webpack, NPM scripts, Codekit, Nuget, Chocolatey, Yarn, Parcel

Past Work Experience

Jan 2010 – July 2016 Dallas, TX / Nashville, TN

6.5 Year career in international broadcast television including roles of A1, L1, V1 for international stations/ networks including the Trinity Broadcasting Network, Iran Alive Ministries, New Beginning Ministries, etc. as well as several corporate theater production companies including PSAV, Oliver Bros Productions, and sub-contracting for Freeman. Responsibilities generally included designing and implementing large scale productions while leading teams of 2-10 engineers.