

THOMAS GLASER

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PROFILE

I have 16 years commercial experience as a Software Engineer, Team Lead and Architect. During that time I have received consistently excellent feedback about my technical expertise, my pro-active approach and my clear and honest communication. I am especially passionate about clean code and applying tried and proven architectural patterns to solve real world problems.

Key skills: Cloud Architecture, Full Stack Development using Microsoft technologies, Angular and NodeJS.

SKILLS

Web Frameworks and Technologies

TypeScript (JavaScript)	5 Years
Angular	5 Years
HTML+CSS	10 Years
ASP MVC, Razor	3.5 Years

Backend Frameworks and Technologies

C# / .Net / .NET Core	12 Years
MS SQL Server with Entity Framework	3 Years
NodeJS	1 Year

Leadership

Technical Team Lead	4 Years
Architect	3 Years

CONTINUING EDUCATION



Microsoft Certified: Azure Solutions Architect Expert

I always strive to extend my knowledge and keep up to date with current trends. I do this using various sources like podcasts, books and PluralSight courses. Recent topics include:

- **Architectural Patterns** for High availability, Cloud Architecture in **MS Azure, Kubernetes, Helm**, Identity Management, **Kafka** and Hadoop to name just a few.
- I am a **Microsoft Certified Azure Solutions Architect Expert** (Certification Number: H394-0016)

EXPERIENCE

MCLAREN APPLIED - SENIOR SOFTWARE ENGINEER (CONTRACT)

April 2019 - March 2020

Co-architected and co-developed multiple Angular+NodeJS+.NET Core applications.

Frameworks/Languages: **Angular** (v9), **NodeJS**, **.NET Core**, **SignalR**, **RxJS** (Reactive extensions for JS), **NgRx** (State manager), **NestJS** (API Framework for Node), **Angular Schematics**, **TypeScript**, **C#**

- I created a Template Web Application to Kick-Start customer projects. This consisted of a NodeJS backend handling security and administration and a frontend in Angular. This included CLI tooling to tailor the application to the project's needs. The CLI was written in NodeJS using Angular Schematics.
- Implemented 3D telemetry visualisation using ThreeJS and D3. The telemetry data was received from a .NET Core backend using SignalR. I've also worked on an Authentication layer in NodeJS against Auth0 using OpenID Connect.
- Co-architected a new authentication layer for the Telemetry Analytics Platform (.NET Core)
- Worked on the CICD build pipelines (Azure DevOps)

MAGNITUDE INTERNET GMBH – CHIEF ARCHITECT, CO-FOUNDER

Oct 2014 – Jul 2019

Designed and co-developed an E-Commerce Solution.

Frameworks/Languages: **Ms Azure Cloud**, **C#**, **ASP.NET MVC 5**, **ASP Web API 2**, **AngularJS**

- I came in as the Chief Architect for this German Start-up company.
- Designed the cloud based architecture (MS Azure) for their multi-tiered product and mentored the team on the concepts used.
- Worked together with the CTO on implementing the CICD pipeline in Atlassian Bamboo. (It was a pain, I'd use Azure DevOps going forward)

INVENIAS - SENIOR SOFTWARE ENGINEER (CONTRACT)

October 2018 – March 2019

Re-implementation of Web-Based CMS in Angular 7.

Frameworks/Languages: **Angular** (v7), **RxJS** (Reactive extensions for JS), **NgRx** (State manager), **C#**, **Visual Studio 2017**, **Visual Studio Code**.

This client was struggling with performance issues, maintainability and stability. I've taken the following steps to move them forward:

- Start to re-implement the application using several new concepts in a side-by-side way, so the improvements can be seen immediately. Many new features were implemented along the way.

- Introduce NgRx for client-side state management and caching.
- Migrate from Angular 4 to Angular 7 to take advantage of out-of-the-box performance improvements.
- Move them to the new Angular CLI build system. This took dev builds from 8 minutes down to 2.
- Set up code linting to highlight anti-patterns and use of deprecated features.
- Mentor the team on all the new concepts so that they can move forward.

FISERV - SENIOR SOFTWARE ENGINEER (CONTRACT)

October 2017 – October 2018

Re-implementation of Risk Assessment Software in Angular 5.

Frameworks/Languages: **C#, WebAPI, Angular (v5), RxJS** (Reactive extensions for JS), **NgRx** (State manager), **Visual Studio 2015, Visual Studio Code, MS SQL Server**.

The old version of the FCRM risk assessment software was implemented in Silverlight and had to be re-implemented in Angular. This included writing a REST API wrapper for the legacy server-side logic using WebAPI. The client-side application was then created from scratch using Angular.

I did some work on the server-side back-end, but I mainly focused on the client-side Angular application and ended up writing about 80% of the app on my own. There was a heavy focus on observability (data changes in one part of the UI affecting other parts), so we heavily used the NgRx, @ngrx/entities and @ngrx/effects packages to manage and observe client-side state changes.

KNIGHT FRANK - SENIOR SOFTWARE ENGINEER

July 2015 – September 2017

Extending and updating Knight Frank's web presence.

Frameworks/Languages: **C#, ASP MVC, .NET Core 1.1, AngularJS (1.x) Angular (2.x), jQuery, ASP WebApi, WebForms, Visual Studio 2015, MS SQL Server**

I have rewritten Knight Frank's property search application from scratch. I have also done multiple smaller projects for Knight Frank, including:

- A UK stamp duty calculator (JavaScript/jQuery) <http://www.knightfrank.co.uk/stamp-duty-calculator>
- A new office and people search plugin (AngularJS, WebAPI)

COUCHBASE INC. - SOFTWARE TRAINER (CONTRACT)

July 2015 – Oct 2016

I have trained some of Couchbase's customers in the use of the Couchbase C SDK (libcouchbase).

HM INFORMATIK AG – SENIOR SOFTWARE ENGINEER (CONTRACT)

Mar 2014 – June 2015

I have written multiple plugins for a Flight Control Simulation software (FCS). Frameworks/Languages: **C++, Boost, CMake, QT 4.8, Visual Studio 2010, Bazaar**.

MOMENTUM COACH HIRE LTD – IT DIRECTOR, SENIOR SOFTWARE ENGINEER, CONSULTANT

Sep 2011 – Mar 2014

I have been working for Momentum Coach Hire, a small ambitious company in the Coach Hire and Event Organisation business. There, I have created a variety of new web sites and improved existing ones. I've moved some of the existing ones to Azure, all the new ones were hosted on Azure from the start. I have also been promoted to IT Director and was responsible for the migration of the entire company (50 employees) onto Microsoft Office 365.

Frameworks/Languages: **C#, ASP.NET MVC 3-4, Google Maps API, MS Azure**

SYMANTEC UK LTD – SENIOR SOFTWARE ENGINEER

Feb 2010 – Sep 2011

I have worked as a Senior Software Engineer for Symantec UK Ltd in the Research and Development team for Symantec Enterprise Vault, an email archiving solution written in C# and C++.

INGRES EUROPE LTD – SENIOR SOFTWARE ENGINEER

Mar 2004 – Feb 2010

With Ingres I worked as a permanently employed Consultant. I was involved in various customer projects as a developer and architect.

EDUCATION

TECHNICAL UNIVERSITY OF ILMENAU

- Diplom Informatiker (Dipl. Inf.) – Equivalent to 2:1 Master in Computer Science
- Primary Subject: Computer Science “Good” (2.2)
- Secondary Subject: Mathematics “Good” (1.7)
- Diploma Thesis: “Toolbox with Interactors for Geometric Modelling in Virtual Reality” “Good” (2.3)
- Various extracurricular Activities like Manager of a Student Club.

INTERESTS

- Open Source Community, Linux
- Racquet Sports

REFERENCES

Excellent references available on request.