

## CURRICULUM VITAE

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Dan True

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07/09/1988

*Dan is an experienced Tech Lead and Cloud Achitect, with 9 years of full-time consulting experience and more than 20 years of coding experience. For the last decade Dan has been working primarily on the .NET platform and was an early adopter of open-source .NET Core (now .NET 7).*

*In addition, Dan has 6+ years of experience deploying solutions to Azure and the cloud in general, and 6+ years of architecting and building fullstack modern SPAs and PWAs using frameworks such as VueJS and Angular, paired with Typescript.*

*Professionally, Dan is a technically strong consultant paired with a good practical understanding of tech leadership, business and an ability to quickly master new complex domains. Dan strongly believes that strong technical design and execution can translate to better development cycles, developer happiness and finally the bottom-line of the company.*

*Dan shines when architecting and building software, pairing good technical execution with business sense and when the organization seeks to advance their setup – such breaking up a monolith or beginning the journey to cloud.*

### COMPETENCES

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| <ul style="list-style-type: none"> <li>✓ <b>.NET (core), ASP.NET</b></li> <li>✓ C/C++, F#, Scala</li> <li>✓ Vue, Angular, Javascript, Typescript, HTML, CSS</li> <li>✓ Azure services, deployment and migration</li> <li>✓ SQL, MongoDB, SolR, Redis, RabbitMQ,</li> <li>✓ Docker, Kubernetes, Application Insights</li> <li>✓ Azure DevOps, Git</li> <li>✓ Prolog</li> </ul> | <ul style="list-style-type: none"> <li>✓ <b>Artificial Intelligence, Automated Planning and Knowledge Representation</b></li> <li>✓ Neural Networks, Deep Learning and Natural Language Processing</li> <li>✓ Logical, Deductive and Formal Systems</li> <li>✓ Domain Specific Languages</li> <li>✓ Microservices</li> <li>✓ S.O.L.I.D, Architectural Competencies &amp; Service-oriented architecture</li> <li>✓ Continuous Integration &amp; Delivery</li> </ul> | <ul style="list-style-type: none"> <li>✓ <b>Tech Lead</b></li> <li>✓ Agile and Classic Methodologies</li> <li>✓ Domain Driven Design &amp; Test Driven Development</li> <li>✓ Teaching &amp; Presentation</li> <li>✓ Entrepreneurship and Digital Innovation</li> <li>✓ Managing customer expectation and relationships</li> </ul> |
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## EARLIER POSITIONS

- March 2019 – Now: Fulltime freelance consultant
- October 2018 – February 2019: Tech Lead at Swiipe Payments
- October 2015 – December 2018: Part-time freelancer at Rubicon Games, Copenhagen Cloud Company, Notemoon, Code2One and Labflw.
- January 2017 – September 2018: Senior Architect at Netcompany. Danish Lead in the *Cognitive Computing Center of Excellence*.
- September 2014 – December 2016: Consultant at Netcompany.
- January 2013 – September 2014: Student developer at CEM Institute – Voxmeter
- Spring 2014: Teaching Assistant at DTU in *Development of Software Products*
- Spring 2013 and 2014: Teaching Assistant at DTU in *Introduction to Artificial Intelligence*.
- January 2012 - December 2012: Partner and backend developer at Købstaden ApS
- February 2011 - January 2012: Student developer at CEM Institute - Voxmeter
- Several earlier positions:
  - Web Developer at Standout Design. (2010)
  - Web Developer for Risø DTU's Galathea Expedition (2008-2009)
  - IT Teacher at the Youth School Aakirkeby. (2006-2007)
  - Developed websites, assembled & sold computers in high school (2002-2004)
- 2001: Taught myself to code with PHP, HTML, Javascript and MySQL on Apache.

## SAMPLE PROJECTS

Below are given an overview of some interesting projects where I have had a central role in their success.

### INTEGRATION SCALING AT HEMPEL, 2023-2024

**The setup:** Hempel was consolidating various areas of their business after a number of acquisitions over the years, leading to the development of a new integration platform layer in their IT landscape. While this led to several new integrations, the main project I was brought on for was one division of Hempel changing ERP system to SAP, which lead to many new integrations to and from the platform layer.

**My role:** I was brought on as an IT Architect to validate and design the integration platform and because I had experience scaling development teams. My main role was technical design of the solutions and process design to allow rapidly scaling the development teams several times over. At the later part of the project I took responsibility and Disaster Recovery planning and Deployment and I managed the team that ensured a timely launch of the project.

**The Outcome:** Project was successfully delivered in April 2024 and my contract ended after a Hypercare period of 2 months.

**Technologies:** C#, Azure DevOps, Microservices, Azure Servicebus, Azure Services, Team Leadership, Team Scaling, Cloud Architecture, Tech Management, Security and Disaster Recovery

**Project Scope:** 14 months

## IoT MONITORING AT FOSS, 2023

**The setup:** FOSS is one of the worlds leading instrumentation providers for the global food sector. They have thousands of instruments deployed all around the world and would like a cloud solution to monitor their health and alert responsible parties when errors occur.

**My role:** FOSS was already well underway with their own developers, but needed additional manpower to deliver the project on time. I was onboarded to help for a few months to reduce their backlog. In addition, I brought specific experience within parallel cloud systems and multi-tenancy microservices to bear to allow them to adhere to specific hard business requirements.

**The Outcome:** I delivered the needed functionality and advice within the project scope and FOSS took the project on from there after the backlog was reduced to a sufficient size.

**Technologies:** C#, Azure DevOps, Microservices, Azure Servicebus, Azure Services, Multi-Tenancy

**Project Scope:** 3 months

## TECHNOLOGICAL TRANSFORMATION AT SUNDHED.DK, 2020-2022

**The setup:** Sundhed.Dk had experienced breakdowns and instability due to the huge amount of new traffic due to Covid-19. This influenced their IT strategy to focus on upgrading services to newer technologies and continue breaking big, monolithic services into smaller, more manageable microservices.

**My role:** First, introduce dot.net core to sundhed.dk and enable the organisation to continue embracing the new versions of dot.net, through new documentation and development pipelines. After this, the assignment changed to changing sundhed.dk's authentication methods to the new MitId from the earlier NemId. This entailed deep work with authentication protocols such as SAML, as well as developing a Proof-of-Concept for an OpenId-Connect server. In addition, authentication and session management was to be moved out of a monolith and into separate microservices.

**The Outcome:** The project was successfully developed and deployed in late 2022.

**Technologies:** C#, dot.net core, dot.net standard, MS TFS, SAML2, OIOSAML3, OpenId Connect

**Project Scope:** 27 months



## MICROSERVICES AT DK-HOSTMASTER, 2019-2020

**The setup:** DK-Hostmaster was in the process of a major rewrite of internal system, reimplementing older systems based on Perl onto a microservices architecture based on dot.net core.

**My role:** My assignment here was threefold:

1. Act as a Senior Developer: writing code, fixing bugs, establishing new services etc.
2. Advice on and implement Microservice Architecture, Event-Driven Systems and DevOps principles. Advice their SysOps on how to deploy and maintain dot.net core microservices services.
3. Teach their frontend developer(s) Vue.js so they could transition away from older Pearl services.

**The Outcome:** When I left, the project was about to go into production.

**Technologies:** C# on asp.net core, Docker, Vue, Azure DevOps, Gitlab, Application Insights

**Project Scope:** 11 months

## MOVE TO THE CLOUD AT CALSEP, 2019

**The setup:** Calsep had an enterprise software suite for installation on physical desktops for heavy computations on various fluid measurements. They wanted to move to a cloud API model.

**My role:** They brought me on to bring the expertise that they lacked, both to implement aspects of the solution and to ensure overall technical quality and use of best practices.

**The Outcome:** Calsep was ready for market-testing a new suite of cloud products and had taken on the competencies and practices to continue refining and expanding them.

**Technologies:** C# on asp.net core, MongoDB, Docker, Kubernetes, Fortran Interop, Azure DevOps, Application Insights

**Project Scope:** 6 months

## RAPID PROTOTYPING AT LABFLW, 2018

**The setup:** Labflw is a funded startup with a vision of digitalising the workflow of dentists and dental labs, which is currently often still done with physical casts and printed paper.

**My role:** Labflw hired me as a freelancer to help them get their ideas implemented and validated through a series of rapid prototype iterations. I built an MVP in close conjunction with the founders, dentists and dental labs.

**The Outcome:** Their product has received great feedback from testers and launched in April 2019.

**Technologies:** C# on asp.net core, Vue JS, Typescript, MongoDB.

**Project Scope:** ~250 hours of development before launch

## CONTINUOUS DEVELOPMENT & INTEGRATION AT KOMBIT, 2017-2018

**The Setup:** Netcompany had to deliver a successor to a very criticized system to the local governments dealing with vulnerable children and their families. The tender process was delayed, and the old system had a hard expiry date due to licensing issues, which put the entire project under immense time pressure.

**My role:** To lead the platform team that would supply the DevOps pipeline and the platform components, on top of which three functional teams would build the functionality. In all there were ~40 developers working in the same code base and DevOps methodologies were necessary to ensure productivity and limit blocking issues.

**The Outcome:** A successful launch of the system on budget, quality and time.

**Technologies:** The system was built with Angular, C#, MSSQL, Redis and SolR, running on docker in Azure for dev, test and staging environments. DevOps was setup using Azure DevOps (then VSTS), git, SonarQube and Octopus.

**Project Scope:** A year of design and development by more than 40 people.

## AI AT AO JOHANSEN, 2017

**The Setup:** Netcompany had delivered a major B2B webshop to AO Johansen. Another team had continued after delivery with implementing business intelligence on the newly-gathered data. They succeeded in training an Artificial Neural Network to do churn prediction with a high accuracy - but needed advice on best-practices for embedding it in the architecture.

**My role:** As part of my role in the Netcompany Cognitive Computing Center of Excellence, I helped the team define how their machine learning model should be deployed, maintained and monitored to fit with best architectural practices.

**The Outcome:** The team improved their pipeline for putting new version of the churn prediction model into production and gained valuable experience on what architectural pitfalls and challenges this new type of software component brings.

**Technologies:** The models were based on Deep Learning built with ML.NET. For deployment our final suggestion was hosting the models in docker containers deployed into a Kubernetes cluster on Azure.

**Project Scope:** A few meetings and sparring sessions with the Netcompany consultants at AO.

## RESTRUCTURING INTERNAL ARCHITECTURE AT NETCOMPANY, 2017

**The Setup:** Netcompany had outgrown its internal systems for time registration, case management and billing. In addition, they were planning to become a publicly traded company, which brought new legal data management requirements.

**My role:** I was the architect responsible for the complete overhaul of the internal systems. The project entail setting up, connection and configuring Dynamics NAV, Sharepoint, a Datawarehouse and a custom-built Angular time registration system. The time registration system also functioned as an integration hub between the systems mentioned above. Because the main data was billable hours, great pain was made to ensure no data discrepancies across the systems.

**The Outcome:** A completely new internal architecture was established, which could support the future growth of Netcompany, adhere to the legal requirements of publicly traded companies and had much less loss of billable hours due to bugs and failed messages.

**Technologies:** Angular, Typescript, SOAP, Microsoft Enterprise products. The teams worked with DevOps methodologies setup using Azure DevOps (then VSTS) and Octopus.

**Project Scope:** Four months of design and development before launch.

## LAUNCHING HK INTERNAL SYSTEMS, 2015-2016

**The Setup:** Netcompany was responsible for delivering a large IT system to the HK unemployment fund, for managing their users, cases, documents and data. This entailed changes in the entirety of their service-oriented enterprise architecture.

**My role:** I was brought on as a backend coder on one of the subsystems, but gradually took over ownership of the architecture. With 4 major systems, several smaller support systems and many external integrations, this was critical to the overall health of the system. I had to coordinate and plan across several teams as well as solve system-wide performance and transaction-scope based bugs.

**The Outcome:** HK went live on time and quality, in a very challenging two-week go-live period, as their old systems had to keep running smoothly for the upgrade duration. After launch the system underwent several more updates to achieve full stability under load.

**Technologies:** Microsoft CRM, Microsoft Sharepoint, Netcompany Modulus, C#, Asp.Net WebForms, MSSQL, Oracle SQL, SOAP, REST.

**Project Scope:** 1 year of analysis and design, 6 months of development followed by 6 months of testing and 3 months of stabilisation and further upgrades.

## CONSOLIDATING PORTALS AT VOXMETER, 2013-2014

**The Setup:** Voxmeter is an analysis institute, which focusses on gathering data for specific customers and making the resulting data and business reports available through online portals. But the portals had over the years been implemented on many different technologies and had become hard to maintain and extend.

**My role:** I challenged the IT director on the issue, and he allowed me to design and lead the implementation of a unified replacement system. We had a replacement system in place within the given timeframe and could then convert and launch the most important portal as a proof-of-concept.

**The Outcome:** Voxmeter now uses the unified system for all portals and can much more easily create and maintain their portals. This means customers can be presented a prototype early in their onboarding process, that tech improvements can be rolled out to all customers at once and that the system can be maintained more easily and securely.

**Technologies:** Asp.Net, Knockout JS, jQuery and jQuery UI.

**Project Scope:** 4 months of design and development before launch.

## EDUCATION & CERTIFICATION

- Netcompany Academy courses in: Customer Engagement, Software Delivery, Technical Excellence, Communication and Presentation.
- Certifications: MS 70-483 Programming in C#
- Software engineer (cand. polyt) from the Technical University of Denmark (DTU). My study line was 'Effective and Intelligent Software' and the thesis title 'Implementation, Extension and Assessment of the Action Language mA+' and deals with epistemic multi-agent systems.
- Bachelor Degree in Software Engineering at DTU. Bachelor Project was titled 'Fast Planning with Regards to Game AI' and dealt with dynamic and unpredictable single-agent systems.
- Participated in a research project at DTU titled 'Implementation of Chemical Retro-Synthesis' dealing with applying logical search techniques to applications in chemistry.