

CURRICULUM VITAE



Dan True

+45 31 21 67 30

dan-true@hotmail.com

07/09/1988

- ✓ *Solves complex tasks or architectural challenges in your setup*
- ✓ *Unravels the hype and grows your business with emerging technologies such as Artificial Intelligence and Deep Learning*
- ✓ *Facilitates innovation through Rapid Prototyping in close conjunction with your Domain Experts*
- ✓ *Guides your journey to the Cloud and beyond into the world of DevOps*

COMPETENCES

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| ✓ .NET (core), ASP.NET | ✓ Artificial Intelligence, Automated Planning and Knowledge Representation | ✓ Tech Lead |
| ✓ C/C++, F#, Scala, Python, Rust | ✓ Neural Networks, Deep Learning and Natural Language Processing | ✓ Agile and Classic Methodologies |
| ✓ Vue, Angular, Javascript, Typescript, HTML, CSS | ✓ Microservices | ✓ Domain Driven Design & Test Driven Development |
| ✓ Azure services | ✓ S.O.L.I.D, Architectural Competencies & Service-oriented architecture | ✓ Teaching & Presentation |
| ✓ SQL, MongoDB, SolR, Redis, RabbitMQ, | ✓ Continuous Integration & Delivery | ✓ Entrepreneurship and Digital Innovation |
| ✓ Docker, Kubernetes, Application Insights | ✓ Logical and Deductive Systems | ✓ Managing customer expectation and relationships |
| ✓ Azure DevOps, Git, Octopus, Teamcity, SonarQube | ✓ Domain Specific Languages | |
| ✓ Prolog | ✓ Formal Systems | |

EARLIER POSITIONS

- March 2019 – Now: Fulltime freelance
- 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.

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 ready 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

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.

LIFTING RUBICON GAMES TO THE CLOUD, 2017

The Setup: Rubicon Games was a well-funded startup trying to make math fun to learn. They had a prototype game which could run locally but needed code expertise in how to improve the problem generation and how to lift their app into the cloud.

My role: I was brought on to help their founder improve his code, so better math challenges could be generated for the users. In addition, I built a cloud backend on Azure that could handle matching between users, store scores and provide data for further analysis.

The Outcome: Rubicon Games could successfully launch their app, gather user data and move towards their next project.

Technologies: The project used C# on Azure and in Unity. Data analysis of game data was done with Python libraries.

Project Scope: ~100 hours of design, development and teaching coding.

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.