



Thomas Bonderup

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Summary

As a software engineer, I help companies solve problems and leverage computers.

I have extensive knowledge about real-time event stream processing platforms, their ecosystems and how they are built. Combined with a thorough understanding of data protection, data aggregation and data analytics.

Specialties: Big data, Distributed Systems, Scalability, AWS, Analytics

Experience

Information Technology Consultant

TB Coding

Aug 2015 - Present (5 years 1 month +)

IT Consulting / freelance software engineering for enterprise focusing on the following technologies: Distributed Systems, Cloud, AWS, Open Source, Microservices, Git, Docker, Kubernetes, Linux, Emacs, Java, Spring, PostgreSQL, Apache Kafka, Kafka Streams, Confluent Platform, ElasticSearch, Kibana, MQTT, ROS, C++, Python, Tensorflow, Jira, Agile Development, (2 years of experience).

Responsible for building and maintaining a portfolio of small to medium sized websites and e-commerce and subscription stores for customers, most projects built with open source software / LAMP Stack, (3 years of experience). Most of the work was focused on helping small to medium sized businesses all over Denmark in transportation, banking, fitness, manufacturing, automation, software, food & beverage, mental health, graphic design, non profit organizations, online marketing.

IT subcontractor for various companies, building products and services for their customers.

Responsible for building and maintaining a portfolio of affiliate websites (8 years of experience): Built one of the largest handball websites in Denmark. Built multiple affiliate websites in fitness, gadgets, price comparison, IT, cosmetics. I have written over 200 blog posts and helped generate affiliate income (1,000,000 kr +) in turn over for various businesses.

Responsible interviewing and managing software engineering interns.

Public speaking gigs helping small to medium businesses get better at running their business.

Consulting and mentoring calls with various business owners on how to run their business.

CEO

Comboto

May 2020 - Present (4 months +)

At Comboto we build multicloud infrastructure for mobile robots to help robotics companies integrate their sensor data into a single cloud platform.

Owner

Haandboldnationen.dk

Aug 2012 - Aug 2020 (8 years 1 month)

Haandboldnationen.dk is a personal hobby project, where I share my 4+ years of experience playing handball at an elite level. The website is a danish handball blog targeting the danish handball community to help handball players at all ages become better at handball and have more fun playing the game.



CTO

Vinoli ApS

Oct 2016 - Apr 2018 (1 year 7 months)

CTO and partner at Vinoli ApS, a danish wine on subscription platform company.

I joined the company at the early startup phase to help the two co-founders Denis & Nikolaj achieve their vision for the company by scaling the operations with software. We succeeded because our almost obsessive customer focus and product innovation in a very competitive industry.

Designer and implementor of Vinoli's automatic subscription billing system. Monthly, quarterly recurring charge feature, multiple subscription product variant. Pricing features (free subscription, paid subscription).

Designer and implementor of Vinoli's warehousing, logistics and packaging process. My job was to automate and scale processes to increase speed by getting the wines from suppliers via trucks, packaging the products and getting the product delivered to the customer.

Designer and implementor of Vinoli's e-commerce platform. The platform was built with PHP, WordPress, MySQL, WooCommerce, HTML, CSS, Javascript, QuickPay Payment Service Provider, Clearhaus Merchant Acquiring Services, System Integrations to MailChimp, Facebook Ads, Google Ads, Youtube and other external services and API's.

Designer and implementor of Vinoli's wine subscription gift product, that made it possible for customers to give a subscription as a gift. The product increased our cash flow in the early critical startup phase by having customers pay for 6 to 12 months subscriptions up front.

Designer and implementor of Vinoli's Online Marketing strategy. Responsible for Search Engine Optimization, Content Marketing, Google Ads, Youtube SEO, SEO friendly Platform, Lead generation, Landing Pages to increase conversion rate.

Vinoli ApS was acquired by a competitor called Vinfarmen ApS. I helped the new owner take over the business over a longer business transition period.



Customer Service

Louis Nielsen

Jun 2013 - Aug 2013 (3 months)

I worked a full-time summer job at Louis Nielsen helping their customers on the phone. (150-200 customer phone calls a day).



Professional Handball Player - Elite Sport

Aalborg Håndbold

Dec 2009 - Jun 2013 (3 years 7 months)

Full time professional sports athlete for 4+ years and 10+ years prior at an amateur level.

Won various tournaments and competitions on a weekly basis performing in an extremely competitive team environment.

I was recruited for talent training with the best handball athletes in the country.

Doing elite sports helped me learn a lot about myself and how to operate in a team. How to train and push myself and others both physically and mentally. I also learned the value of hard work, daily grind and consistent effort to achieve the highest potential.

Education



Roskilde University

Master of Science (MSc) in Computer Science (Datalogi) and Informatics, Computer Science
2020 - 2022

Semester Projects:

File Encryption Application with Symmetric Key Encryption, Cryptographic Hash Functions and Java Bouncy Castle Cryptography API.

Worked as a software architect creating an architectural description for a global cloud infrastructure to empower customers utilizing robots.

Courses:

Programming For Security with a focus on Symmetric, Asymmetric Key Encryption and Cryptographic Hash Functions.

BUITA - Systems Development and Design, Evaluation of IT, Implementation and Change Management, IT security.

RAWDATA - Machine Architecture and Operating Systems, Distributed Systems, Databases and Human to Machine Interactions.

Theoretical Computer Science.



Software Development (Bachelor), Computer Science

2018 - 2020

Semester Projects:

Scalable IoT Data Streaming Platform For The Transportation Industry with Apache Kafka & Confluent Platform.

Scalable Ridesharing Platform With Python, Flask Java, Spring, React, Nginx, Docker and Kubernetes. Database Systems For Self-driving Cars.

Continuous Integration & Continuous Delivery Pipeline with Jenkins, Robot Operating System & C++.

Test-driven development for Robot Operating System (ROS) & C++.

Courses:

Bachelor Project.

Internship.

Modern Distributed Systems / Microservices.

Project Management.

System Integration.

Databases for Developers.

Development of Large-Scale Systems.

Software Testing.



UCN - Professionshøjskolen University College Nordjylland

Datamatiker - Computer Science (AP), Computer Science

2013 - 2016

Semester Projects:

Big Data Collection, Python Web Scraping and ASP.NET MVC Web App.
Built A Line Follower Robot with Arduino.
Flight Route Planning System with Dijkstra's algorithm.

Courses:

Main Project.

Internship.

Agile System Development.

Specialization in Robotics (AI and Self Driving Cars).

Web Programming.

Computer Architecture and Operating Systems.

Computer Network and Distributed Systems.

Information Technology in Organisations.

System Design.

System Construction.



Aalborghus Gymnasium

High School Diploma, English and Social Studies

2010 - 2013

Elite Sport Class

Courses:

English, Biology, German, Math, Physics, Chemistry, Social Studies, Latin, Ancient Greek Art, Sports



Personal Projects and extracurricular activities

Competitive programming, mostly leetcode.

Various Massive open online courses, MIT Deep Learning Series, Stanford CS230: Deep Learning, Udacity free course on Self-Driving Cars and Robotics & AI, MIT 6.006 Introduction to Algorithms.

Recommender systems, computer vision projects with face detection and object detection, robot localization, sentiment analysis, fraud detection.

Nand2tetris.

Skills

Software Engineering • Software Design • Artificial Intelligence (AI) • Algorithms • Big Data • Cloud Computing • Computer Science • Distributed Systems • Machine Learning • Consulting