

Contact

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Top Skills

Test-Driven Development

Bitbucket

Azure DevOps Server

Languages

English (Professional Working)

Bokmål, Norwegian (Full Professional)

French (Native or Bilingual)

Lingala (Native or Bilingual)

Certifications

Java Database Access with Hibernate

Docker Essential Training: 3 Image Creation, Management, and Registry

Big Data Foundations: Techniques and Concepts

Learning JavaFX GUI Development

Jonathan Kongolo Ngoyi

System test and development @ N2 applied | Java, Docker, Big Data, AI, Python

Drammen, Viken, Norway

Summary

Embarking on a journey that intertwines technology, creativity, and a relentless pursuit of knowledge, I've crafted a career that reflects my passion for innovation and my commitment to making a difference. My professional path is punctuated by diverse experiences, from developing essential software solutions to competing on Norway's talent stage with my brothers, showcasing not just my technical skills but also my love for music and the arts.

As a full-stack developer, I've had the privilege of contributing to projects across various domains, including sustainable agriculture at N2 Applied, educational technology with Bravie A/S in Denmark, and enhancing local community engagement through app development for Søndre Land Municipality. Each role has been a building block, further solidifying my expertise in technologies such as Java Spring Boot, Python, C++, and more, while also diving deep into the realms of OpenAI, Docker, DevOps, and CI/CD practices with tools like Git, GitLab, Bitbucket, and Jenkins.

My academic journey at NITH (now Kristiania University College) laid the foundational stone of my career, which was further enriched by my experiences abroad, including a formative exchange program at HUBrussel. These experiences not only honed my technical skills but also instilled in me a global perspective on technology's role in solving real-world problems.

Beyond my professional endeavors, I am a fervent advocate for lifelong learning. Whether it's mastering 3D printing, diving into 3D design with Fusion 360, or exploring IT solutions for challenging problems, I am driven by curiosity and the belief that nothing is impossible. This mindset has propelled me to continuously evolve my skill set, ensuring I remain at the forefront of technological advancements.

Nature walks and music are my sanctuaries, offering me inspiration and a chance to recharge. This balance between personal passions and professional pursuits has been crucial in maintaining creativity and innovation in my work.

As someone who loves to help and embraces challenges, I am always on the lookout for opportunities to contribute positively to my team and the broader community. My journey has been one of constant learning, adapting, and overcoming obstacles, driven by a desire to turn the impossible into possible.

Joining me on this journey means embracing the challenges and opportunities that the future of technology holds. Let's connect, collaborate, and create impactful solutions together. #Technology #Innovation #LifelongLearning #FullStackDeveloper #3DDesign #SustainableTech

Experience

Technogarden

Information Technology Consultant

January 2023 - Present (2 years 1 month)

Asker, Viken, Norway

At N2 Applied, I contribute to developing sustainable fertilizer technology by ensuring system reliability and performance. My role encompasses programming and testing, focusing on the machinery that integrates nitrogen from air into organic substrates.

Collaborating closely with a team, my work with Python and Selenium automates tests, enhancing our development process. The simulator is crucial, enabling us to troubleshoot and optimize the machine's performance ahead of real-world deployment. This approach not only streamlines production but also aligns with our mission to reduce chemical fertilizer reliance, cut emissions, and promote a circular economy.

My role is pivotal in advancing N2 Applied's technology, ensuring it meets high standards of quality and sustainability. By focusing on machine functionality and sensor accuracy, I help drive innovation in fertilizer production, contributing to a sustainable agricultural future.

Xepto AS

Applikasjonsutvikler

April 2016 - November 2022 (6 years 8 months)

At Xepto, I spearheaded the development of a new admin website for our flagship project, CityGuard, aimed at enhancing wastewater and clean water infrastructure management. My role encompassed the project's lifecycle: planning, testing, building, and engaging with customers to tailor a platform that meets their needs. Initially, I built the backend using PHP with Silex and MySQL, complementing it with a frontend crafted from AngularJS, HTML, and CSS.

As the project evolved, the data management demands outgrew PHP's capabilities. I transitioned to Spring Boot with Java, utilizing JPA, Lombok, and Maven to construct a more robust REST API. This shift significantly improved our system's efficiency and scalability, enabling us to handle larger datasets and offer more reliable services.

In my final year with Xepto, my focus shifted towards embedded systems, specifically developing the communication protocols for our new board. I implemented MQTT and Spring Boot for data reception, decoding, and database storage, while C programming was used for managing data transmission from I2C to the nRF9160 chip, then outward via MQTT.

CityGuard, initially a project within Xepto, grew into its own entity, reflecting its success and the critical role it played in our portfolio. CityGuard stands as a testament to our commitment to environmental protection and infrastructure resilience, utilizing IoT technology to provide vital data for water management, even under extreme conditions.

Xepto, at its core, is an IoT pioneer, focusing on delivering sophisticated surveillance, reporting, and alarming solutions for challenging environments like water/wastewater and logistics. Our work harnesses BLE and NB-IoT technologies, ensuring remote, battery-powered systems can offer continuous, reliable monitoring. My journey with Xepto/CityGuard has been a blend of innovation, adaptability, and impact, safeguarding critical infrastructure and the environment.

Brusel to night (B2N)

Full-stack Developer

January 2013 - August 2017 (4 years 8 months)

Belgium

Working on the Brussels to Night (B2N) app was a transformative chapter in my development career, marked by collaboration, innovation, and learning. As a full-stack developer, I teamed up with two peers from HUBrussel, blending my technical skills with their expertise in sales and marketing. Together, we embarked on a journey to create an app that would become the go-to guide for nightlife in Brussels, showcasing events, promotions, and discounts on drinks, including beer offers.

Developing B2N from the ground up, I was faced with making critical decisions on the app's architecture, database structure, and development methodology. These choices were pivotal, shaping the app's functionality, performance, and overall user experience. The project demanded a deep understanding of user needs and market trends, driving me to adopt flexible, scalable solutions that could adapt to the dynamic landscape of nightlife and entertainment.

Beyond the technical skills, B2N taught me about the entrepreneurial aspect of app development. Bringing a product to market, especially in the competitive entertainment sector, required perseverance, creativity, and the ability to pivot in response to feedback and changing conditions. It was a lesson in resilience and adaptability, qualities that have since become cornerstones of my professional ethos.

Selling B2N in 2017 was a bittersweet moment. It marked the end of an exciting adventure but also the beginning of new opportunities. The experience of developing and commercializing the app was invaluable, leaving me with a wealth of knowledge and a deeper appreciation for the intricacies of software development. It propelled my growth as a developer and an innovator, equipping me with the skills and confidence to tackle future challenges in the tech industry.

Søndreland kommune

Mobile developer

July 2013 - April 2016 (2 years 10 months)

Søndreland kommune

Developing an app for Søndre Land Municipality was not just a technical project; it was a significant contribution to the community. This app, created with React Native for seamless Android and iPhone compatibility and backed by Silex PHP with an AngularJS admin panel, served as a digital gateway

to the municipality's offerings. Søndre Land, nestled in Innlandet with its diverse geography from the shores of Randsfjorden to the heights of Vesle Skjellingshovde, boasts a rich blend of natural beauty, cultural sites, and vibrant events. The app aimed to encapsulate this essence, providing residents and visitors with an accessible, user-friendly platform to discover dining spots, coffee shops, natural sites, and local events.

This initiative was crucial for several reasons. Firstly, it enhanced the visibility of local businesses and attractions, potentially driving economic growth by attracting more visitors to the area. By highlighting places to eat, sights to see, and events to attend, the app encouraged exploration and patronage within the community, supporting small businesses and fostering a sense of local pride.

Moreover, the app played a vital role in streamlining information dissemination, making it easier for users to stay informed about what's happening in their vicinity. In regions like Søndre Land, where the landscape is a mix of rural and urban settings, having a central digital hub for community information is invaluable.

From a technological standpoint, my work on this app underscored the importance of using modern development tools and frameworks to address real-world needs. Utilizing React Native allowed for the creation of a cross-platform application that delivers consistent user experiences across different devices, a critical factor in ensuring widespread accessibility and engagement. The backend framework and admin panel ensured robust data management and ease of content updates, essential for keeping the app's information relevant and useful.

Bravie AS

Full-stack Developer

January 2015 - June 2015 (6 months)

Copenhagen, Capital Region, Denmark

Joining Bravie A/S in Denmark marked a significant leap in my career as a full-stack developer, intertwining my passion for technology with the noble cause of facilitating learning and job acquisition. Bravie, a pioneering Scandinavian company, was engaged in developing web applications to revolutionize traditional knowledge dissemination. Their vision was to enable authors to enrich their textbooks with interactive elements like videos, animations, and tests, making learning not just accessible but engaging across the globe.

At Bravie, my responsibilities were multifaceted, involving the development of a creator for electronic textbooks. This platform was designed to democratize the creation and sharing of enriched educational content, allowing anyone with a smartphone and internet access to absorb wisdom from leading experts worldwide. The culmination of this learning journey was an innovative approach to assessment - a verbal "exam" conducted via a mobile camera, leading to the issuance of a video diploma, a testament to the learner's expertise and a valuable asset in the job market.

My work at Bravie was instrumental in bringing this vision to life. Leveraging PHP and React Native, alongside Symfony for backend development, I contributed to creating a seamless, intuitive user experience. A significant part of my role was to integrate WebRTC technology for real-time video streaming, enabling live-saving of video interviews.

Working at Bravie AS was not just about developing software; it was about contributing to a larger mission of transforming how knowledge is shared and valued in the digital age. It underscored the potential of technology to bridge gaps between education and employment, offering a fresh perspective on recruitment and skill verification.

Emixis

Mobile Application Developer

October 2013 - December 2013 (3 months)

Belgium

During my semester at HUBrussel, I delved into Sales, Business Management, and Content Management, a curriculum designed to equip students with a comprehensive business toolkit. This academic pursuit was complemented by a practical experience at Emixis, now Viasat Connect Belgium, as part of HUBrussel's practice-oriented learning approach. At Emixis, I was tasked with developing an app using Ionic, aimed at enhancing the tracking capabilities of the company's devices. This project represented my initial step into app development, presenting a significant learning curve given my business-focused studies.

The challenge of bridging the gap between my business education and the technical demands of app development was formidable. Despite the steep learning curve, this experience was invaluable, offering a firsthand glimpse into the tech industry's fast-paced and innovative nature. It underscored

the importance of versatility in the business world, where understanding technology's role in operational success is crucial.

Working at Emixis allowed me to apply theoretical knowledge from Kristiania university (old name: NITH) in a real-world context, particularly in understanding how technology solutions can drive business objectives. My time at Emixis, a leader in telematics and IoT solutions, and my studies at HUBrussel, provided a dual framework that enriched my educational journey. This blend of business management principles and hands-on technological development has been instrumental in shaping my career path, emphasizing the synergy between business acumen and technological proficiency in today's digital economy.

This unique experience, combining academic studies with practical work, highlighted the essential nature of adaptability and continuous learning. It prepared me for the challenges of navigating the complex landscape of modern business and technology, instilling in me the confidence to tackle future projects with a well-rounded perspective.

Education

Kristiania University College

3, Computer Programming/Programmer, General · (2011 - 2014)

HUB-KUBrussel

Erasmus · (2013)