

Curriculum Vitae for Sebastian Gjertsen

Personal information

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Summary

I hold a masters degree in applied mathematics from the University of Oslo and Simula Research Laboratory, finished in 2017. In my thesis I built a Fluid-Structure Interaction solver with Python using the FEniCS platform. This also included working with supercomputers parallelizing the computational efforts. During my studies I gained knowledge in algorithms, numerical computing and programming in different languages.

After graduating I worked for Shortcut AS, an app-development company, developing iOS apps and working with Splunk for monitoring and analyzing machine-generated big data, detailed more below. I have also taken courses and attended conferences on AI/Machine Learning, learning neural networks using Tensorflow, Keras, Scikit-Learn.

For the last two years I have been working as a consultant at Arundo Analytics working mostly as a data engineer. The projects I was involved in are described in detail below.

Letter of recommendation is attached.

References to contact: Freddy Hansen (Principal Solutions Architect at Arundo Analytics) tlf: +47 97709964,

Lukasz Mentel (Head of Data Science EMEA at Arundo Analytics) tlf +47 96874214.

Technical skills

Frameworks	Pandas, Apache Spark, Databricks, Bokeh, Plotly, Dash, Tensorflow, Keras, FEniCS
Languages	Python, Java, Scala, Swift
Tools	Git, PostgreSQL, Azure, Splunk, Jira, VSTS

Education

2015 - 2017	Master in Computational Science from the University of Oslo, Norway
2015	Exchange student at the University of Utrecht, Netherlands

2012 - 2015	Bachelor in Mathematics with Informatics from the University of Oslo, Norway
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Professional experience

2018 -	Expert Analytics AS
2017 - 2018	Shortcut AS

Languages

English	Fluent, lived in the US for 2 years as a teenager.
Norwegian	Native language

Personal skills

Machine learning	While working for Shortcut I took courses in machine learning, learning about neural networks, recommender systems etc. Using frameworks such TensorFlow, Keras, scikit-learn, Pandas, programming in Python and Matlab. Course certificate: https://www.coursera.org/account/accomplishments/certificate/EHGJT2SFVHVK . I was also involved in the initial phases of setting up a recommender system for a client while working for Shortcut.
Programming	I am most familiar with Python because of the extensive use in my studies, but I also have an understanding of Java, C/C++. I love programming and I am always interested in, and consider myself quickly adaptable to, new programming languages. In my studies and in my working experience I have used GitHub and I am familiar with agile software development.

Some interests and hobbies

Ice-Hockey	I played Ice-hockey throughout my youth, and lived 2 years in Minnesota, USA playing and attending high school. Now I play somewhat frequently with a lower division team in Oslo.
Music	Most of my time spent outside of work is playing guitar and making music. I play in a band which plays original music and gigs often around Oslo. I also play in different projects with singers, djs etc.

Extended descriptions of selected projects

Activity	Arundo with customer TechnipFMC and Unipetrol,
Period	03/19 - 12/19
Role	Data Engineer
Volume	100%

Description	Implementation of data platform, cloud solution for petrochemical plants. My role as a data engineer was to handle data coming from the petrochemical plant. This involved building a pipeline in Apache Spark which ensured validity, robustness and security. Saving to a database to be used by a UI. My role also included having direct contact with end customer, understanding the subject matter and receiving data. The team I was apart of used scrum principles with sprints, and Jira for team collaboration.
Tools	Python, Pandas, Apache Spark, PostgreSQL, Jira
Activity	Arundo with customer Menck,
Period	07/18 - 03/19
Role	Data Engineer
Volume	100%
Description	Building dashboard cloud solution with data integration for specialised hydraulic pile-driving services, largely used in the offshore industry. My role was to build the dashboard in Python with Plotly Dash, and data integration solution with Apache spark.
Tools	Python, Pandas, Plotly, Dash, PostgreSQL, Jira
Activity	Arundo with customer Coats,
Period	02/18 - 06/18
Role	Data Engineer
Volume	100%
Description	Implementation of data platform integrating data from sewing factories in Asia. My role consisted largely of building plots and simple data analysis from incoming data giving insights to customer.
Tools	Python, Pandas, Bokeh
Activity	REMA1000, Æ app with over 1 million users.
Role	Splunk Coordinator, iOS developer
Staffing	Shortcut, Bouvet, Communicate, SopraSteria, Stix, Verifone and Visma
Description	Æ is an app by REMA1000 to help consumers save money and keep track of their purchases. My job was to use the Splunk tool to overview the API calls made by the app to several endpoints, and to set up automatic alarm systems to warn for excessive error codes. I also worked as a iOS developer on this project.
Tools	Splunk