

# Adrian Meidell Fiorito

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## Work Experience

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<b>Sparkel AS</b> Full-Stack Engineer, Sparkel Developing a platform and web app for analysis and estimation of construction projects <i>React, AWS, CDK, GraphQL, TypeScript, Chakra UI, Node, CSS, TensorFlow, GPT, Docker, PostgreSQL</i>	Oslo, Norway Mar. 2022 - present
<b>ITverket AS</b> Consultant, Mastercard Payment Services Java Developer, upgrading projects to the latest Spring and Java versions <i>Java, Maven, Spring, Git, Linux, Oracle SQL</i>	Oslo, Norway Dec. 2021 - Mar. 2022
<b>Bouvet ASA</b> Consultant, European Railway Energy Exchange (EREX) Full stack development of a system for calculating energy consumption in the European railway network <i>Java, Kubernetes, Docker, SQL, Javascript, HTML, Agile, Vue.js, microservices, Spring, RabbitMQ, Linux</i>	Oslo, Norway Jan. 2019 - Dec. 2021
<b>Bouvet ASA</b> Summer Intern, Statens pensjonskasse Web app for visualizing pension data <i>Javascript, React, Redux, HTML, Kanban, CSS, Scrum, Rapid prototyping</i>	Oslo, Norway Summer 2018
<b>Cisco Systems</b> Summer Intern, Software Department Parallelization of integration tests in OpenStack <i>Python, testing, CI/CD, continuous integration, OpenStack, cloud, Bash, Docker, Linux</i>	Oslo, Norway Summer 2017
<b>Norwegian Defence Research Establishment</b> Scientific Assistant, Air and Space Systems Developed software for autonomous landing of quadcopters on QR markers <i>C++, Computer Vision, OpenCV, Control Theory, Robot Operating System, Linux, teamwork</i>	Kjeller, Norway Summer 2016
<b>Norwegian Defence Research Establishment</b> Scientific Assistant, Air and Space Systems Developed user interface, route planning, and control system for Black Hornet UAV <i>C++, Qt, graphical user interface, control theory, UAV, route planning, motion capture</i>	Kjeller, Norway Summer 2015
<b>Norwegian University of Science and Technology</b> Student Assistant Grading assignments and tutoring students in courses at NTNU <i>TTK4105 - Control Theory, TDT4102 - Procedure- and Object-Oriented Programming, TDT4110 - Information Technology, TTK4100 - Cybernetics, Introduction</i>	Trondheim, Norway Jan 2014 - Jun 2016

## Education

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<b>Norwegian University of Science and Technology</b> Master of Science in Cybernetics and Robotics (GPA A)	Trondheim, Norway 2013–2018
<b>University of California, Santa Barbara</b> Exchange student, Electrical Computer Engineering (GPA 3.62/4.0)	Santa Barbara, USA 2016–2017
<b>Engineer Battalion, Norwegian Armed Forces</b> Combat Engineer, Mandatory Military Service	Skjold, Norway 2012–2013

## Personal projects

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<b>High-Frequency Cryptocurrency Trading System</b> Developed a high-frequency cryptocurrency trading platform with C# and AWS. Features include data ingestion from multiple brokers, custom dashboards in Blazor, a Postgres-backed market simulator, and a tax calculator handling millions of transactions.	2020-2023
<b>GPT Tutor</b> A project for generating personalized audio lessons with GPT and Azure AI speech, written in TypeScript.	2023

## Skills

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- **Certifications** Oracle Certified Associate (2019), Certified Scrum Master (2019), AWS Cloud Practitioner (2022)
- **Training and Workshops** High performance Java persistence (2020), Spring and Hibernate (2021), Platoon Leader Course in the Home Guard (2021)
- **Programming Languages** TypeScript, Java, SQL, PostgreSQL, JavaScript, Python, C#, C++
- **Backend, Cloud and Database Technologies** PostgreSQL, AWS, Spring, DynamoDB, Spring Boot, GraphQL, REST, Maven, RabbitMQ, JPA, Hibernate, Kubernetes, Openshift, AWS, Docker, Oracle Database, PostGIS, ASP.NET
- **Frontend Development and User Interface** React, Node, Vue.js, HTML, CSS, GraphQL, Chakra UI
- **Miscellaneous Development** Git, Bash/Shell, Linux, Regex
- **Robotics and Machine Learning** LLM, Deep Learning, Machine Learning, Computer Vision, Image Processing, Optimization, Numerical Methods, Classical and Modern Control Theory, Modeling and Simulation, Keras, TensorFlow, PyTorch, OpenCV
- **Languages** Norwegian (Native), English (Fluent), Italian (Basic)

## Publications

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- [1] A. M. Fiorito, “Age Estimation from B-mode Echocardiography with 3D Convolutional Neural Networks”, <https://ntnuopen.ntnu.no/ntnu-xmlui/handle/11250/2622326>, M.S. thesis, NTNU, 2019.
- [2] A. M. Fiorito, A. Østvik, E. Smistad, S. Leclerc, O. Bernard, and L. Løvstakken, “Detection of Cardiac Events in Echocardiography using 3D Convolutional Recurrent Neural Networks”, in *Ultrasonics Symposium (IUS), 2018 IEEE International*, <https://ieeexplore.ieee.org/document/8580137>, IEEE, 2018.