



SIGFRID STJÄRNHOLM

Physics student

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CAREER SUMMARY

As a student at both gymnasial and University level, I have been engaged in various concils related to my studies. Working as a software consultant alongside my studies have yielded me great experience in how projects develop and has also allowed me to test the waters in a large variety of programming paradigms.

EDUCATION

Master's degree

(Master's Programme in Physics)

Uppsala University

2021 - Present

A two-year programme at Uppsala University, specializing in the Nuclear and Particle Physics track. The programme reinforces the knowledge within fundamental physics, and with the course collection of mine I have chosen to put a lot of weight on the experimental aspect of particle physics.

Achievements:

- Student representative in the Programme Advisory Board for the Masters's Programme in Physics

Selection of courses (so far):

Classical ElectrodynamicsComputer Programming IIStatistical Methods in PhysicsSymmetry and Group Theory in Physics

Bachelor's degree

(Bachelor's Programme in Physics)

Uppsala University

2018 - 2021

A three-year programme at Uppsala University covering a large portion the fundamental physics - from classical mechanics to advanced quantum physics. The programme also involves plenty of rigour in mathematics and a lot of programming.

Achievements:

- Student representative in the Programme Advisory Board for the Bachelor's Programme in Physics
- Vice Chairman in the Student Faculty Council for Physics students
- Recipient of three prices from the Mathematical Society at Uppsala University for distinctive performance in the courses Geometry and Calculus I, Geometry and Calculus III, and Fourier Analysis
- Recipient of Melanderhjelm's scholarship from the Faculty of Science and Technology at Uppsala University

Selection of courses:

Analytical MechanicsComplex AnalysisComputer Programming IElectromagnetic Field TheoryElectromagnetismElementary Particle PhysicsFourier AnalysisGeometry and Calculus I, II & IIILinear Algebra IIMathematical Methods of PhysicsMathematical Statistics KFMechanics KF & IIIMedical PhysicsNuclear PhysicsOrdinary Differential Equations IPhysics Project I & IIPhysics Project with a Research BasisPhysics and FinanceQuantum MechanicsQuantum PhysicsScientific Computing KF & IISpecial RelativityStatistical MechanicsThermodynamicsWaves and Optics

Gymnasium

(Natural Science Programme)

Björknäsgymnasiet

2015 - 2018

A three-year programme at Björknäsgymnasiet involving the natural sciences.

Achievements:

- Chairman in the Programme Advisory Board for the Natural Science Programme
- Chairman in the Student Council for Björknäsgymnasiet
- Scholarship from the Natural Science Programme for distinctive performance
- Attendee of a 2-week long internship at CERN (HSSIP)
- Finalist in Wallenbergs fysikpris (Swedish national physics competition) and competitor in the Nordic-Baltic Physics Olympiad (NBPhO)
- Attendee of Berzeliusdagarna, a weekend-seminar for students interested in chemistry
- Attendee of Rymdforskarskolan, a 2-week programme at Esrange space center

INTERESTS

- Particle physics
- Quantum physics
- Nuclear physics
- Simulations
- Experiments
- Open-source

SKILLS & TOOLS

Software

Python

C# / C++

Node.js

SQL

HTML/CSS

LaTeX

Git

Hardware

Arduino

Computer assembling

Circuits

HOBBIES

- Mountain hiking
- Bread baking
- Skiing
- Cycling
- Computer hardware

ENGAGEMENTS

- Banner carrier for Norrland's nation (Student association in Uppsala)
- Test supervisor at the Swedish Scholastic Aptitude Test (Högskoleprovet, SweSAT)
- Hometown ambassador for Uppsala University

WORK EXPERIENCE

Software consulting

Jolix AB

2016 - Present

Jolix is an IT consulting company specializing in E-commerce applications. At Jolix, I have worked on plenty of projects within varying programming environments. The company also runs a small electronics store in Boden named pålyset.se, in which I have worked as a clerk.

Projects:

- Backend development of a checkout system for organizations using C#, Node.js & microservices
- Backend development of a message listener for IoT-devices reporting back to a central hub using Node.js
- Integrating customers to a Storm API in C#
- Frontend development of a dashboard web application for E-commerce admins

Technologies used:

.NET (4.5 & Core)PythonNode.jsC#HTMLCSSJavascript/TypescriptGitJSONCI/CDTest-driven developmentUnit testingMicroservicesReactReduxSwagger

Event organizer

Lise Meitner-dagarna

2019 - Present

Lise Meitner-dagarna is a yearly weekend-seminar in Stockholm for high-school students interested in physics. During three intensive days, the students get to partake in laboratory experiments, exhibitions and lectures by prominent physicists in a variety of fields. The organizing group consists of 4 members, and about 130 students from all over Sweden attend the event each year.

Roles:

- Head of administration (2019 - 2020): Bookings for hotel, catering, and trips for the whole event. Managing registrations for schools, students, and exhibitors.
- Head of communication and marketing (2021 - Present): Designs for mailings. Communication with schools and students. Upkeep of the website. Photography and social media.