



SIGFRID STJÄRNHOLM

Physics student

 Uppsala, Sweden

 sigge.stjarnholm@gmail.com

 [linkedin.com/in/ssigfrid](https://www.linkedin.com/in/ssigfrid)


 github.com/kladdy

 sigfrid.me

CAREER SUMMARY

As a student at both gymnasial and University level, I have been engaged in varous 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



Bachelor's degree (Bachelor's Programme in Physics)

Uppsala University

2018 - Present

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

Selection of courses:

Analytical Mechanics

Complex Analysis

Computer Programming I

Electromagnetic Field Theory

Electromagnetism

Elementary Particle Physics

Fourier Analysis

Geometry and Calculus I, II & III

Linear Algebra II

Mathematical Methods of Physics

Mathematical Statistics KF

Mechanics KF & III

Medical Physics

Nuclear Physics

Ordinary Differential Equations I

Physics Project I & II

Physics Project with a Research Basis

Physics and Finance

Quantum Mechanics

Quantum Physics

Scientific Computing KF & II

Special Relativity

Statistical Mechanics

Thermodynamics

Waves and Optics



Gymnasium (Natural sciences' programme)

Björknäsgymnasiet


2015 - 2018

A three-year programme at Björknäsgymnasiet involving the Natural sciences'.

Achievements:

- Chairman in the Programme Advisory Board for the Natural sciences' programme
- Chairman in the Student Council for Björknäsgymnasiet
- Scholarship from the Natural sciences' programme for distinctive performance
- Attendee of a two-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

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#

Technologies used:

.NET (4.5 & Core)

Python

Node.js

C#

HTML

CSS

Javascript

Typescript

Git


JSON

CI/CD

Test-driven development

Unit testing

Microservices



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.

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)