



# Leevi Veneranta

Aspiring Computer Scientist

## Personal Profile

Aspiring computer scientist who is passionate about learning and self-development. As my motto goes:

*Every day is an opportunity to learn and improve myself*

Highly interested in various topics in computer science including machine learning, information security and cloud computing. I wish to continue developing my skills further and have an impact on the society!

## Abilities

- Motivated and well-disciplined
- Quick and eager to learn anything new!
- Fluency in both written and spoken English
- Reliable and flexible team player
- Strong skills in independent work

## Programming languages

|        |                        |            |
|--------|------------------------|------------|
| Python | <div><div></div></div> | Expert     |
| C      | <div><div></div></div> | Proficient |
| C++    | <div><div></div></div> | Proficient |
| Scala  | <div><div></div></div> | Proficient |
| Matlab | <div><div></div></div> | Proficient |
| Julia  | <div><div></div></div> | Beginner   |

## Contact Information

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- [www.github.com/venleevi](https://www.github.com/venleevi)

15/11/2021

## EMPLOYMENT HISTORY

- Teaching Assistant, Aalto University 26.10.2020 - Present
- Academic year 2021-2022:
    - o Data Structures and Algorithms
  - Academic year 2020-2021:
    - o First Course in Probability and Statistics
    - o Differential and Integral Calculus 2
- Research Assistant, Aalto University 1.5.2021 - 12.9.2021
- Department of Computer Science: Astroinformatics
  - Development of 3D astronomical data visualization tools using Pyvista and Python
- Research Assistant, Aalto University 1.6.2020 - 31.8.2020
- Department of Applied Physics: Atomic scale physics
    - o Reimplemented a microscope automation framework to support a different Python API
    - o Trained machine learning models using a super computing cluster (Triton) and evaluated their performance.

## EDUCATION

- MSc in Computer Science, Aalto University 9.2021 - 12.2022
- Major: Machine Learning, Data Science and Artificial Intelligence
  - Minor: Mathematics
  - Completed 20 / 120 ECTS, with 4.75 GPA
  - Total of 218 ECTS with 4.64 GPA
- BSc in Engineering Physics, Aalto University 1.2019 - 12.2021
- Completed 170 / 180 ECTS with 4.84 GPA
  - Minors: Computer Science and Mathematics
  - BSc Thesis: "Automation of Scanning Tunneling Microscopy using Neural Networks" (Pass with Distinction)
- Matriculation Examination, Classical High School of Tampere 8.2015 - 6.2018
- Physics (L), Mathematics (L), Chemistry (E), Biology (E), English (E), Finnish (M)

## LANGUAGES

|         |                             |
|---------|-----------------------------|
| Finnish | Native                      |
| English | Professional proficiency    |
| Swedish | Limited working proficiency |
| German  | Elementary proficiency      |

## SKILLS

|              |             |       |
|--------------|-------------|-------|
| Python:      | Mathematica | Git   |
| • Pandas     | Anaconda    | LaTeX |
| • PyTorch    | Jupyter     | Linux |
| • NumPy      | SLURM       | Bash  |
| • Sklearn    |             |       |
| • Matplotlib |             |       |
| • Pyvista    |             |       |

## INTERESTS AND HOBBIES

- Reading to learn something new every day
- Challenges I enjoy cracking cryptographic / programming challenges online!
- Tinkering with electronics and IoT programming with Raspberry Pi / Arduino / ESP32!
- Exercise Running & calisthenics to push my own boundaries