

# SEBASTIAN PENTTINEN

## Bachelor in Computer Science

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## EXPERIENCE

### Research Assistant

#### Åbo Akademi University

Nov 2019 – Ongoing    Turku, Finland

- Working full time as a research assistant.
- Main responsibility is to write my master thesis on "Collision avoidance for autonomous vessels using reinforcement learning".
- Tech stack: Python, Open Ai gym, Qt

### Software Developer Trainee

#### Beamex Oy Ab

Jun 2018 – Ongoing    Pietarsaari, Finland

- Part time work alongside studies.
- Main responsibilities are implementation and development of test automation.
- Tech stack: C#, Ranorex, Javascript

### ICT-Specialist Trainee

#### Beamex Oy Ab

Jun 2017 – Sep 2018    Pietarsaari, Finland

- Part time work alongside studies
- Main responsibilities were system administration, user assistance and tech support.

### IT Support Technician

#### Beamex Oy Ab

Jun 2016 – Aug 2016    Pietarsaari, Finland

- Summer Job
- Main responsibilities were user assistance and tech support.

## PROJECTS

### EZAI

#### Åbo Akademi University Project Course

Sep 2018 – May 2019

- Web site and API to provide dynamically generated API endpoints for machine learning models
- Tech stack: Python, Django, PostgreSQL, Bulma

## VOLUNTEER WORK

### Åa-Kodar

#### Åbo Akademi University

March & Dec 2019    Turku, Finland

- Taught programming and supported non programmers on a programming camp

### Hour of Code

#### Åbo Akademi University

Fall 2018    Turku, Finland

- Worked as a coach on an event to get kids interested in programming

## STRENGTHS

Hard-working    Fast learner    Punctual  
Problem solving    Teamwork  
Taking initiative    Communication  
Social skills

## SKILLS

Python    Django    Javascript  
Java    Git    HTML    CSS  
C#    SQL    Latex    Ranorex  
Software Testing    Test automation  
Reinforcement Learning    Data analysis  
Machine Learning    Technical Support  
Agile development    Scrum

## LANGUAGES

- Swedish - Native speaker
- Finnish - Professional working proficiency
- English - Full professional working proficiency

## EDUCATION

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M.Sc. in Computer Science

**Åbo Akademi University**

📅 Sept 2018 – May 2020

Thesis topic: Collision avoidance for autonomous vessels using reinforcement learning

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B.Sc. in Computer Science

**Åbo Akademi University**

📅 Sept 2015 – May 2018

Thesis title: Diffie-Hellman key exchange protocol: function and attacks

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## POSITIONS OF RESPONSIBILITY

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Board Member

**Turun Korkeakoulujen Reserviläiset ry**

📅 Jan 2019 – Ongoing

📍 Turku, Finland

Serving as a board member responsible for member affairs

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Reserve Officer

**Finnish Defence Forces**

📅 June 2015 – Ongoing

Currently holding the rank of second lieutenant and an active reservist

## REFEREES

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**Marina Waldén, Phd. & Adjunct Professor**

@ Åbo Akademi University, Dpt. of Information Technologies

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