

## EXPERIENCE

### Topcoder

*Community Manager*

2021 - 2023

- Community Strategy
- Competitive Programming & Development
- Rapid Development Match competition format; coordination and problem writing
- (Mathematical) Puzzle competition format; creation, coordination and problem writing
- Europe region
- Scheduling, approvals, comms, events, webinars
- Competition management
- Program management
- QA projects
- Advisor role for internal projects and development activities
- Crowd For Good Cancer Research project, advisor role

*Developer Edgenet Evangelist*

2021

- Developer Advocacy for a client partnership, Competitive Programming & Development, Community Member
- 5G, Edge Computing, Machine Learning, Image Processing
- Community management, Communication & representation, Technical development work, Guidance & educational work, content, Client work

### University of Helsinki

*Course Instructor / Teaching Assistant*

2021 - 2022

- Introduction to Statistics and R Programming I
- Introduction to Statistics and R Programming II
- Bayesian Inference
- Geometry
- Mathematics of Machine Learning

### IBM Global Services

*Trainee, Cloud App Migration Services*

2018 - 2020

- Client work for a public sector client.
- Keywords: cloud transformation, automated testing, information security, multi-vendor environment; Kubernetes, Openshift, Enterprise Java, Microservices, Robot framework, Watson technology

### TV Tools

*Software Developer*

2018

- Worked as a software developer on various front and back-end solutions related to media delivery, asset and log management, and monitoring.
- Worked with: Docker, Elasticsearch, Grafana, Low level binary protocols, hardware network interfaces, C#, Ruby, React.js, Lawo VSM

### Nixu Corporation

*Summer Trainee, Situational Awareness*

2016

- Evaluated various security software solutions.
- Worked with: IBM QRadar, ELK Stack, LogPoint, AWS, RHEL, CentOS, Debian, Windows Server, Python, Bash, Ruby, Perl, Metasploit
- Participated in an informal information security contest (CTF), Cyberlympics 2016, as captain of Nixu summer intern team "Fuzzbuzz"

### Hyrylän yläaste

*Substitute teacher*

2015

- Taught maths, chemistry, and programming to grades 7 - 9

## EDUCATION

### University of Helsinki

2017 - present

Master degree, Mathematics. Minor studies in Finno-ugric linguistics.

- Completed credits: 300+ total, graduating as M.Sc. in 2022. Plan to start PhD in 2022.
- Masters' thesis title: Sobolev gradients and partial differential equations, with applications in image processing
- Masters' thesis specialization on gradient methods in function spaces + applications (Optimization, Inverse Problems, Image & Signal processing, PDE)
- Courses of note: Inverse Problems, Statistical Inference with R, Mathematics of infectious diseases, Intro. Wavelet Analysis
- Additional cultural & linguistic studies, especially on finno-ugristics
- Course Instructor / Teaching Assistant for various courses
- Faculty council student representative (Faculty of Science)

### University of Helsinki

2013 - 2017

Bachelor's degree, Mathematics. Minor subjects statistics & Hungarian.

- My bachelor's thesis was on the mathematical methods involved in X-Ray tomographic reconstruction (Inverse Problems)
- Additional cultural & linguistic studies, especially on finno-ugristics

### Tikkurilan lukio

2010 - 2013

Graduated in 2013 with a bilingual IB Diploma.

- I performed volunteer service at Heureka Science Centre as part of the CAS (Creativity, Action, Service) program.
- I wrote my Extended Essay on the construction of real numbers from the rationals.
- My Higher Level subjects were Finnish A, Mathematics, and Chemistry; Standard Level subjects were English A, Philosophy, and Physics.

## SKILLS & INTERESTS

- Languages: Native Finnish, CEFR C2 English (fluent), B2 Hungarian and Swedish, A2 Mandarin Chinese (HSK 3-4). Various other language studies.
- Active self study: for example, I have completed and audited several free courses on the Coursera online platform, including:
  - Machine Learning
  - Social Network Analysis
  - Advanced Competitive Strategy
- Some issued verified badges on Acclaim platform.
- Completed the CMX Academy Community MBA certificate course.
- Topcoder community member since 2013.
- Arts & culture interests, hobbies.
- Competitive programming & CTF hobbyist participant.
- Folk & Electronic musician.
- Member of the Finno-Ugric Society of Finland.