Pentti Sunila

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

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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 / linguistic 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
  - International Leadership and Organizational Behaviour
- 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.
  - Penatrix on CodinGame
  - _Pena on HackerRank
- Folk & Electronic musician (hobbyist).
  - GIDE on Spotify
- Member of the Finno-Ugrian Society of Finland.
- Discord moderator of Topcoder community.
- GitHub page.