Joram Puumala

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Education

Master of Science in Computer Science, Data Science — Aug. 2019 – Present
Tampere University — *Tampere, Finland*

Bachelor's Degree in Information Technology — Jan. 2015 – Dec 2017
Haaga-Helia University of Applied Sciences — *Helsinki, Finland*
Bloomsburg University of Pennsylvania (exchange studies)

Experience

Teaching Assistant — Aug 2020 – Present
Tampere University — *Tampere, Finland*
Introduction to Pattern Recognition and Machine Learning (DATA.ML.100)
Pattern Recognition and Machine Learning (DATA.ML.200)
Computer Vision (DATA.ML.300)

- Helping students during weekly exercise sessions
- Grading weekly exercises
- Devising new exercises for the course

Software Engineer & Systems Specialist — June 2017 – Present
NDC Networks / Cinia — *Espoo, Finland*

- Developed software and automation tools with Python
- End-to-end projects in Computer Vision/Object Detection domain
- Server administration and configuration management, mainly Linux distributions
- Bash scripting for server automation and router utilities
- IoT projects

Selected Projects

ADR Detection and Tracking | *Python, OpenCV, YOLO* — November 2021 – Present

- Detect and track dangerous goods on road (ADR) in real-time
- The main objective of the project is to increase safety in tunnels by tracking dangerous goods and triggering an alarm in case of an accident

CoSSH | *Python, Multiprocessing, Paramiko* — June 2018 – October 2018

- Open-source mass configuration tool for Advantech's industrial routers
- The goal of the project was to speed up router configuration process and ease configuration management. Usage of the tool at NDC Networks has led to a significant reduction in router delivery lead time.

Key Abilities

Machine Learning - In the past couple of years I've spent tremendous time revising math, understanding ML algorithms and implementing them from scratch. I deeply enjoy using the gained knowledge to tackle practical computer vision and deep learning problems.

Programming - The last five years I've written code in my job and for fun. During that time, my ability to express ideas in code and solve real world problems has taken giant leaps forward. I mainly code in Python, but have limited experience with C++, JavaScript and Haskell as well. Some frameworks/libraries I've had a lot of exposure to; Darknet, TensorFlow, OpenCV, NumPy, Flask.

Focus - Ability to deeply focus is something I've noticed that I have ever since I started programming. When I immerse myself in a problem, I tend to live in that world, and ignore exterior distracting factors.

Optimism - I believe in big ideas that have a lasting positive impact on humanity. Being part of something great which changes the world for better is a huge driving force for me.