Master Thesis – Cloud Native Acceleration and Machine Learning

Background
The telecommunications field is transitioning towards virtualized platforms and Ericsson is leading this transformation. The Radio Access Networks Incubator, within the Product Development Group (PDG) 4G&5G, is a new unit where we make brilliant new ideas grow into products. We are responsible for novel designing Radio Access Virtual Network Functions on a server / cloud infrastructure as well as driving management and orchestration open source contributions into the 5G future.

Thesis Description
- Explore novel ways of taking advantage of state-of-the-art hardware acceleration techniques to increase the processing capacity of cloudified RAN functions
- Utilize modern machine learning and AI technology to automate data processing and analysis at the edge of the telecom cloud
- Work with state-of-the-art service and network orchestration as well as data processing frameworks, technologies, and platforms

Qualifications
- You love working in a small team and interact well with other people in a positive, low-ego and collaborative environment.
- You enjoy exploring technical problem solving in creative ways and understand responsible experimentation. You are truly passionate about creating clean code.
- You want to learn about applying machine learning to solving real problems in a cloudified telecommunication environment.
- You are currently registered as a student at a university in Sweden and about to have a degree in Computer Science, Software Engineering, Mathematics or equivalent discipline.

Extent
1-2 students, 30hp each

Location
Ericsson AB Mjärdevi, Linköping or Kista, Stockholm

Preferred Starting Date
Spring 2019

Contact Persons
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