Attila Nagy

CONTACT

Phone	+46 708499543
Mail	attilanagy85@gmail.com
GitHub	https://github.com/NagyAttila

INTRODUCTION

I have a background in telecommunication, automotive industry and machine learning. In the recent years I have developed an interest in deep learning through self-studies, that led to my previous job at RumbleStrip. We worked on adaptive spoilers for the heavy truck industry to lower fuel consumption. Before that, I worked with self-driving cars at Volvo Cars in Active-Safety, and with 3G networks at Nokia Siemens Networks in Budapest. Currently I am working on PacketCore at Ericsson.

My technical interest mostly rotates around open-source software development, cryptography, Linux, machine and deep learning, functional programming, and a little bit of web-development. In my working environment, I tend to be social and discuss books and podcasts I read and listened recently.

My current greatest endeavour is to start my own company and work as a freelancer.

WORK

HiQ, Consultant at Ericsson 04/2020 – Now
Software Developer, Sweden, Full-time

Roles:	Functional Tester, System Tester, DevOps
Programming:	C++, TTCN
Applications:	LTE, PacketCore

RumbleStrip 09/2017 – 10/2019
Software Architect and Developer, Sweden, Full-time

Roles:	SW Architect, Algorithm Developer
Programming:	Python, C, Matlab
Applications:	Adaptive Roof-Deflector, Data-Analysis

ÅF, Consultant at Volvo Cars 07/2014 – 07/2016
Self-Driving Car Engineering, Sweden, Full-time

Roles:	Self-Driving Car Developer, Unit Tester
Programming:	Matlab, Simulink, Python, C++
Applications:	Active-Safety, Data-Analysis, Sensor-Fusion, Mapping, Logging

Nokia Siemens Networks 08/2009 – 08/2012
Software Engineer, Hungary, Full-time

Roles:	Scrum Master, Functional Tester, Unit Tester, DevOps
Programming:	C/C++, Python, Perl, BASH, TNSDL, LDAP
Debugging:	GDB, Valgrind, oProfile

EDUCATION

Deep Learning Nanodegree
Udacity, www.udacity.com `01/2017 – 06/2017`

    Assigment 1: Vanilla Neural Network from scratch
    Assigment 2: Image Classification by Convolutional Neural Network
    Assigment 3: TV script generation by Recurrent Neural Network
    Assigment 4: Language-translation by Recurrent Neural Network
    Assigment 5: Face image generation by Generative Adversarial Networks
    Source-code: https://github.com/NagyAttila/Udacity_DLND_Assigments

MSc. Computer Science
Chalmers University of Technology, Sweden `09/2012 – 04/2014`

    Specialization: Distributed Systems and Networks
    Thesis' Title: Energy Efficient, High-speed Communication in Wireless Sensor Networks
    Thesis' Keywords: Opportunistic Routing, Bulk-transfer, TinyOS, nesC
    Student Project: Carolo Cup, Germany, self-driving miniature cars, team leader
    Research Project: Power consumtion disaggregation and clsassification with SVM

ERASMUS Scholarship
University of Applied Sciences Ravensburg-Weingarten, Germany `09/2008 – 01/2009`

    Field: Embedded Systems

BSc. Electrical Engineering
Obuda University, Hungary `09/2004 – 06/2009`

    Specialization: Embedded Systems
    Thesis' Title: Robot Simulation isepspacenGL Environment
    Thesis' Keywords: Industrial robot simulation, OpenGL, C++.
    Student Project: Remote-controlled miniature car via bluetooth, 8-bit Atmega micro-controller

LANGUAGES

English
Swedish
Hungarian

INTEREST

Technical:	machine learning
	free/open-source software
	blockchain technology
	functional programming
Sports:	rock climbing
	slacklining
	running
	yoga
Others:	meditation
	politics

PROJECTS

HiQ, Consultant at Ericsson
`04/2020 – Now`

After 10 years I am back in Telecom working on the next generation of telecommunication networks. Most of my work currently involves development on the PacketCore network, Functional Testing using TTCN and System Tests.

RumbleStrip
`09/2017 – 10/2019`

Working with adaptive roof-deflectors for trucks using machine learning, AWS and embedded systems to lower fuel consumption. Mostly worked with a Bayesian Regression model for predicting the optimal position of the roof- deflector. But earlier at the proof of concept stage we experimented with a variant of K-Nearest- Neighbour algorithm, Decision Trees and Deep Neural Networks. At the end due to the lack of available data and limitations in our product's HW, we decided to use a Bayesian Regression model. Sensor data was collected using Python on a RaspberryPi, stored in AWS, and evaluated in Matlab. Later, our model was prototyped in an embedded environment on a STM32 board, and field tested using LINAK-LA32 actuators on Volvo trucks.

ÅF, Consultant at Volvo Cars
`07/2014 – 07/2016`

I worked as a SW developer in Active Safety in the Sensor Fusion team using Matlab and Simulink. My work mostly involved post-processing of sensory data for our particle filter algorithm, that fused our positions from the GPS sensor and the IMU.

Nokia Siemens Networks
`08/2009 – 08/2012`

As part of the HLR and DXA teams for 3G development, I worked in a cross-functional team, doing testing, coding and maintenance using C++ and Python.

REFERENCES

Milad Pouyanmehr

Phone:	+46 767607403
Email:	milad@rumblestrip.tech
From:	RumbleStrip

David Andersson

Phone:	+46 735803819
Email:	david.andersson@nvidia.com
From:	Volvo Cars Corporation