

Attila Nagy

CONTACT

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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

<i>Roles:</i>	Functional Tester, System Tester, DevOps
<i>Programming:</i>	C++, TTCN
<i>Applications:</i>	LTE, PacketCore

RumbleStrip

09/2017 – 10/2019

Software Architect and Developer, Sweden, Full-time

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

ÅF, Consultant at Volvo Cars

07/2014 – 07/2016

Self-Driving Car Engineering, Sweden, Full-time

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

Nokia Siemens Networks

08/2009 – 08/2012

Software Engineer, Hungary, Full-time

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

EDUCATION

freeCodeCamp Certificates

www.freecodecamp.org

01/2020 – 03/2020

Certificate 1: Responsive Web Design [Link]

Certificate 2: JavaScript Algorithms and Data Structures [Link]

Certificate 3: Front End Libraries [Link]

Udacity Deep Learning Nanodegree

www.udacity.com

01/2017 – 06/2017

Assignment 1: Vanilla Neural Network from scratch

Assignment 2: Image Classification by Convolutional Neural Network

Assignment 3: TV script generation by Recurrent Neural Network

Assignment 4: Language-translation by Recurrent Neural Network

Assignment 5: Face image generation by Generative Adversarial Networks

[Link To Source Code] [Link To Certificate]

MSc. Computer Science

Gothenburg University, 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 consumption disaggregation and classification with SVM

[Link To Diploma]

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 in OpenGL 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

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

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David Andersson

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