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

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

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]
Content: React, Redux, Boostrap, jQuery, CSS, SASS, AJAX, JavaScript

Udacity Deep Learning Nanodegree
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
[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 consumtion disaggregation and clsassification 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 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

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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