Attila Nagy

CONTACT

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INTRODUCTION

I have a background in telecommunication, automotive industry and machine learning. In the recent years, I mostly worked with Global Navigation Satellite Systems and dead reckoning for positioning. Before that I worked at PacketCore at Ericsson, with adaptive spoilers for the heavy truck industry to lower fuel consumption and self-driving cars at Volvo Cars in Active-Safety.

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

WORK

Coconut Island, Consultant at Volvo Cars 09/2021 – Now
Software Developer, Sweden, Full-time

Roles:	SW Developer and Tester
Programming:	C++, Python
Applications:	Positioning, Dead Reckoning

HiQ, Consultant at Ericsson 04/2020 – 09/2021
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 To Certificate]
Certificate 2: JavaScript Algorithms and Data Structures [Link To Certificate]
Certificate 3: Front End Libraries [Link To Certificate]
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
functional programming

Sports: rock climbing
running
yoga

PROJECTS

Coconut Island, Consultant at Volvo Cars 09/2021 – Now

Currently, I am working with Positioning in Infotainment at Volvo Cars. The challenge on this assignment is to design a scaleable solution that can satisfy the needs of multiple markets and product variants at the same time in a flexible way. The every day tools I am using on this assignment are Git, Gerrit, Android, C++ and Python. My roll involves both SW and HW testing, functional development and maintenance of legacy products on multiple ECUs in the car.

HiQ, Consultant at Ericsson 04/2020 – 9/2021

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

RumbleStrip 09/2017 – 10/2019

In this project, I mostly worked with a Bayesian Regression model for predicting the optimal position of the roof-deflector on Volvo Trucks. 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.

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.