

M.A.Sc Software Eng. ECE **UNIVERSITY OF WATERLOO - Canada** 09/2019-02/2022

Supervised by Prof. Mahesh Tripunitara & Prof. Catherine Rosenberg cGPA 93%

B.Sc Electrical and Electronics Eng.

METU - Turkey 2014-2019

Honour Student, in the top 10%

Exchange Student

KAIST- Korea 2016

Exchange Student

NTU-Singapore 2016



EXPERIENCED

C/C++11, Python MySQL, mongoDB, CUDA, Dockers HTML, CSS, JS/Node, Git, CI/CD

COMPETENT

ROS, Verilog, VHDL, NI Labview, KeyCreator CAD, LTSpice

SERVICE & LEADERSHIP



Volunteer Tutor 01-06/21

Family & Children Service Waterloo

Leader Scout 2014-2016 METU scout team

AWARDS & HONOURS



Graduate Research Studentship

UoWaterloo 2019-2021

Int. Master's Award of Excellence UoWaterloo 2019-2021

474th, in the top 0.035%

Turkish National Uni. Entrance Exam 2014

ABOUT ME



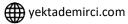
Backpacker (Visited +25 Countries)

Experienced Line Cook

Amateur Sax Player

Yekta Demirci | Software Engineer

- Software Engineer enthusiast who is always passiniate to learn more
- Have various experience with both hardware and software







EXPERIENCE

WATERLOO U.Waterloo | WATERLOO | Graduate Researcher

09/19 - 02/22

- > Implemented a two-level slice scheduler on OAI and FlexRAN platforms
- Implemented a two-level Weighted Round Robin fashioned slice scheduler on top of a third-party, open-source RAN project with a large codebase in C/C++
- •Enhanced the existing API to enable changing the state of the slices on- the-fly
- Prepared guides to setup a private LTE network in emulation and COTS hardware
- •Implemented a Poisson traffic generator and UDP clients/servers in Python

aseisan ASELSAN | ANKARA | Software Engineer

06/19 - 09/19

- > Successfully implemented the followings on JETSON TX2 device:
- Real time edge detecting with a CLI to enable changing various parameters (Gauss. Blur window size, sigma etc.) on-the-fly using built-in CUDA modules in C++
- Real time green ball detecting with a CLI using built-in CUDA modules in C++
- Matrix multiplication and matrix addition in .cu

UNIVERSITY of

WASHINGTON **GEMSEC lab** | SEATTLE | ML Research Intern

07/18 - 09/18

- > Implemented an application that can preprocess various types of peptide data, creates different tensors and predicts new ones. An hour runtime for ~1000 peptides
- Used feature extraction techniques, built-in PCA & self-written wavelet transforms
- Analyzed the relation b/w. various properties and metal binding using sklearn lib.
- Scientific Report: "A Generalized Similarity Metric for Predicting Peptide Binding Affinity" bioRxiv

SOME PROJECTS

- ➤ Food Hunter Web Application 2021
- Developed a web app. w/ 5 people using HTML, CSS, JS, mDB, Selenium, Jenkins, agile methods
- > Flow level, HTTP-2 Classification with Machine Learning Algorithms 2020
- A publicly available web traffic collection is analyzed by KNN, SVM, CART, ANN
- > Performance Analysis of different Vertex Cover Approx. Alg. w. Multi-Thread 2019
- Concurrently run a SAT solver and 2 approximation algorithms for a VC-problem
- ➤ Relevance between # of Friendships and # of Connected Communities 2019
- A publicly available social network is investigated via modified DFS betweenness
- > Design and Implementation of an Autonomous 2D SLAM Robot 2018
- Designed and built a robot with a group of 5 people as a bachelor capstone project
- Implemented noise-filtering, (novel) pathfinding and object classification algorithms
- > Implementation of FFT & Overlap-and-Save Algorithm in myRIO 2018
- Implemented FFT, Overlap-Save algorithms in C, run in real time on linux based OS
- > NBA Play-off & Regular Season Relation Analysis with PCA & Artificial Neural Nets
- NBA data is extracted from NBA website to train an A.N.N. Play-off results were predicted

SOME COURSES

Grad: • ECE650: Methods & Tools for Software Eng. • ECE606: Algorithm Design & Analysis • CS656: Computer Networks • ECE657A: Data and Knowledge Modelling & Analysis

- ECE651: Foundations of Software Engineering • ECE356: Database Systems
- Undergrad: EE435-436: Analog-Digital Telecom. EE497: Real Time App. Of Digital Signals
- CS466: Image Processing CS499: Introduction to Machine Learning EE441: Data Structures