

# ARISTOTELIS VONTZALIDIS

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## EXPERIENCE

Research Software Engineer - Institute of Communication and Computer Systems

**National Technical University of Athens**

September 2021 – Currently Athens, Greece

### DAPHNE

- Work on the DAPHNE project, a system infrastructure for data analysis pipelines, data processing, HPC and ML, written in C++ using the MLIR framework (<https://daphne-eu.eu/>).
- Working with team (ICCS and other institutes) on design and development of the distributed runtime.
- Implemented Daphne's Web UI (Angular & Flask API).
- Implemented Daphne's serialization library.

### Data analytics tasks

- Worked in performing data analysis and time-series forecasting. Data extraction, data cleaning and machine learning (SQL and Python).

### Kubernetes

- Deployed a small Kubernetes cluster and installed Knative.
- Modified & deployed vSwarm and FunctionBench benchmarks.

## Salesman

### Germanos

Jul - Aug, 2014-2021

Karlovasi, Samos

- Customer service, worked during summer breaks.
- Tech expert, was in charge for all tech related support, including fixing software and simple hardware related issues for smartphones, laptops.

## Military Obligations fulfilled

Nov - 2020, Jul - 2021

## TECHNICAL SKILLS

- C++ Python JavaScript SQL C#
- App & Web Development OOP Web(HTML,CSS,JS)
- Databases Angular NodeJS(Express) Git

## LANGUAGES

- Native language Greek
- Proficiency in English – ECPE

## PERSONAL SKILLS

- Ability to work under pressure.
- Ability to take initiative to solve problems.
- Team spirit, enjoys assisting colleagues.

## EDUCATION

Integrated Master

**National Technical University of Athens at Electrical & Computer Engineering - 7.5 CGPA**

Sept. 2014 – July 2021

- **Thesis:** I was inspired from prior work (BranchNet), to train machine learning models, in order to predict Hard-to-Predict branches, where state-of-the-art predictors fail. I used PyTorch framework for machine learning and ChampSim simulator for evaluation.

## PROJECTS

### City lights

- A cross-platform mobile application using Xamarin that allows users to place pins on a map to log street lights within a municipality. The app serves as a useful tool for keeping track of street light information.

### Customer Relationship Management

- It was developed for our family business, in order to track customers and their needs for future services. It was implemented with WPF (C#) and SqlLite.

### Student Offers

- A user-friendly website for a school project with Express.js, MySQL, Bootstrap, and AngularJS. Students can filter offers, log new ones, and find deals.