# CHRISTOS ZACHARIOUDAKIS

#### **Electrical and Computer Engineer**

@ chrz1995@gmail.com ☎6943956679 ➤ Megaloupoleos 27, Gyzi, 11474 • Athens, Greece

https://chrz95site.web.app/ in linkedin.com/in/christos-zacharioudakis-12173a123 • github.com/chrz95



#### **WORK EXPERIENCE**

- Developed time, workforce and financial management software "SpeakSchedule" for healer office in Kissamos, Chania (Spring 2021)
  - It was developed in Python.
  - The user interface was designed with Qt Designer.
  - PostgreSQL was used as a backend database for information storage and retrieval.

#### **EDUCATION & TRAINING**

- M.Sc in Electrical and Computer Engineering Technical University of Crete, Department of Electrical and Computer Engineering
  - GPA: 9.47/10
- Post Graduate Student National Technical University of Athens - School of Electrical and Computer Engineering - "Data Science and Machine Learning" - 2021 - Ongoing
- ICT Intermediate Certificate in Microsoft Word, Excel, PowerPoint and Access, Internet Services, Computer Usage and File Management
- Cisco IT Essentials Certificate: PC Hardware and Software
- SFHMMY 2016 Seminar
- "Introduction to Programming with Python" Certificate -Aristotle University of Thessaloniki
- "Data Analyst" Certificate National and Kapodistrian University of Athens
- "Introduction to HTML and JavaScript" Certificate National and Kapodistrian University of Athens
- "Introduction to Cybersecurity" Certificate Cisco Networking Academy
- "Technical Level I" Certificate SoftOne Technologies

## **SOFTWARE & TOOLS**

- Operating Systems: Microsoft Windows, Linux, Raspberry Pi, Android, iOS
- RDBMS: PostgreSQL, MySQL, Sqlite
- Machine Learning: TensorFlow, PyTorch, Scikit-Learn
- Data Management/Analysis Tools: Microsoft Excel, Microsoft Power BI, KNIME Analytics Platform, Apache Spark (PySpark), Pandas, Numpy, MatplotLib, Plotly
- Web Development: React
- Web-Scraping: BeautifulSoup, Selenium
- IDE: CodeBlocks, NetBeans, PyCharm, Visual Studio Code, Jupyter
- Cross-Application Frameworks: Flutter
- Document Editing: Microsoft Office, LibreOffice, LaTeX
- Distributed Version Control Systems: Git & GitHub
- Graphical Interface Designers: Qt Designer (PyQt)

- Graphics Editors: Adobe Photoshop
- Game Development Engines: Unity 3D
- Parallel Computing Platforms: CUDA, OpenMP

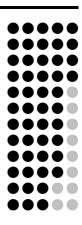
#### **FOREIGN LANGUAGES**

Greek (Native)
English (C2 by University of Michigan)
German (B1 by Goethe Institut)



### PROGRAMMING LAN-GUAGES

Python
SQL
C++/C
Java
Dart
MATLAB
R
HTML
CSS
JavaScript
C#
Assembly MIPS



## **PROJECTS**

- Technical University of Crete:
  - Mastermind PC Game Written in C
  - Material Receipt Reader Written in C
  - Hospital Data Manager Written in Java
  - Zoo Data Manager Written in Java
  - Creating a queue as a data structure Written in Assembly MIPS
  - Constructing an index from input data Written in Java
  - Dynamic Hashing implementations on memory and hard drive Written in Java
  - Implementation of the Multilevel Feedback Queue and Multi-Threaded Processes – Written in C
  - Implementation of Pipes and Sockets Written in C
  - Implementation of a University Students Database Written in PostgreSQL
  - Space Ball Race (Unity 3D) Android Game Uploaded in Google Play
  - Programming sensor network that use the TAG method – Written in nesC (TinyOS)
  - Multiprocessing using OpenMP, POSIX Threads, MPI and SSE – Written in C
  - · Parsing input files using Bash Scripts and Python
  - Implementation of a server and client using Pipes and Sockets – Written in C

- Build a decision tree (CART) and performing classification on a public dataset - Written in Python
- Thesis: Large Differentially Private Data Synthesis using PrivBayes algorithm and Generative Adversarial Neural Networks (Thesis) (2019-2020) - GitHub -Thesis Paper - Grade 10/10
- Technical University of Athens:
  - · Optical digits recognition using Neural Networks
  - Sound signals recognition using GMM-HMM, LSTM and CNN models.
  - Data mining on COVID data using R and Apache Spark.
  - Finding optimal gain through a series of shares
  - Prediction of music preference using Spotify data.
  - Processing of medical data on child obesity of the ENDORSE program.
  - Creation of self-supervising model on image data.
  - Parallel training of a Neural Network on CPU (OpenMP, OpenBLAS) and on GPU (CUDA, cuBLAS).
  - Processing of data from Spotify using Apache Spark.
- · Personal:
  - HealTasker: Cross application software built on Flutter for organizing appointments. Optimized for usage by doctors. GitHub
  - Chrz95site: My website, which contains a summary of my CV. It was built using React and is hosted on Google Firebase - Link

## **INTERESTS & HOBBIES**

- Desktop & Mobile Development
- Data Science
- Machine Learning
- Reading

#### **OTHER SKILLS**

- Fulfilled military obligations
- Driving License (Type B)
- Oral and Written Communication
- Reliable and Consistent
- Eager to learn