CHRISTOS ZACHARIOUDAKIS

Electrical and Computer Engineer

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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 LANGUAGES

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