Michail-Panagiotis Bofos

Researcher and Full Stack Software Engineer

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Education

UNIVERSITY OF CYPRUS | Bachelor's in Computer Science

2018 - 2022 | Nicosia, CY

- 240 ECTs program
- Graduated with GPA: 8.38 / 10

Working Experience

COGNITIVE UX GMBH | Software Engineer & Researcher

July 2022 – Current | Heidelberg, Germany

- Virtual Reality development with A-Frame
- Front-end development with HTML5, JavaScript and CSS3
- Back-end development with on Django framework & Postgres
- Server-Client communication with AJAX
- Development & Documentation of API with Swagger and Postman
- DevOps basics with Docker and Docker Compose
- Version control with Git/GitHub
- Organizing and planning using Notion
- Keeping meeting minutes in technical and virtual meetings
- Demoing and presenting developed platforms in meetings and multiplier events

NETWORKS RESEARCH LABORATORY (NETRL) | Software Engineer & Researcher

March 2023 – Current | University of Cyprus

- User authentication via keystroke patterns using Random Forests
- Demoing and presenting developed platforms in meetings and multiplier events

Work Projects

ERASMUS+ 2021 CREAMS | 2021-1-EL01-KA220-HED-000027597

2022 – Current

- Designed and implemented a Web Framework and open-source tools
- Lead development and integration activities
- Preparation of deliverables
- Presentation of platform

ERASMUS+ 2020 TRUSTID | 2020-1-EL01-KA226-HE-094869

2022 – Current

- Testing and advising regarding systems programming and machine learning
- Developed a keylogging user authenticator using Random Forests

Information

Address: Aglantzia, Cyprus

Nationality: Greek

Birthday: 22th of July 2000

Relevant Courses

Object-Oriented Programming
Data Structures and Algorithms
Adv. Software Engineering
Systems Security
Human-Computer Interaction
Machine Learning
Web Technologies
Linear Algebra
Calculus I & II

Skills

PROGRAMMING

Proficient:
Java • C • JavaScript • Python
SQL • CSS • HTML • Bash

Experienced:
C++ • CUDA • PHP

Familiar:
LaTeX • C# • Powershell • Batch
Assembly • Mermaid

LIBRARIES/FRAMEWORKS

Django • A-Frame • Keras
Pandas • Matplotlib • Pthreads
Google Maps API • OpenSSL
Metronic • HyperLedger Fabric
Java Swing

TOOLS/PLATFORMS

Git/GitHub • Docker • Linux
Notion • Postman • Wireshark
Proto.io • Balsamiq • VM Ware

LANGUAGES

English (Proficient) • Greek
(Native) • French (Basic)

Projects as a Student

WEATHER FORECAST SITE | HTML, Javascript, CSS/Bootstrap and PHP

- Web Development course project
- Main goal: Host a page that fetches data from other servers
- HTML5 and Bootstrap for front-end
- PHP and SQL for back-end
- Utilized OpenWeatherMap and CountriesShow APIs

MENTAL HEALTH MANAGEMENT SYSTEM | Java, Java Swing and SQL

- Advanced Software Engineering course project
- Main goal: Create a patient management system for mental health facilities
- Used waterfall model
- Prototyping with Balsamiq
- Client-Server architecture with multiple Java clients and a Java server
- Database development with SQL
- Clients communicated with the server with JSON requests and responses
- Graphical User Interface with the Java Swing library

POP3 SERVER | C. Pthreads

- Systems Programming course project
- Main goal: Implement and expand the POP3 mailing protocol (RFC 1939)
- Multithreaded server written in C and Pthreads with socket communication

SOCIAL FACE | Java, Java Swing and SQL

- Databases course project
- Main goal: Create a social media mock up
- Used Java for Server and SQL for database
- Used Java Swing library for Graphical User Interface

VARIOUS MACHINE LEARNING NETWORKS | Java and Python

- **Back Propagation Python**
- **Back Propagation Java**
- **Radial Basis Function Java**
- **Kohonen Map Java**

PHYSIBLE | Python, PySimpleGUI and Matplotlib

- Personal project
- Main goal: Visualize functions from physics
- Used PySimpleGUI for Graphical User Interface and Matplotlib for plots

Thesis Project

NATURAL GAS DEMAND PREDICTION SYSTEM USING ADVANCED RECURSIVE NEURAL NETWORKS (LSTM & GRU) | Python, Tensorflow and Keras

2022

- Created a system that makes an hourly natural gas demand prediction
- Used Long-Short Term Memory and Gated Recurrent Units Networks
- Predictions made using meteorological data
- Used Pandas for data manipulation, Keras for the neural network implementation and Matplotlib for plots

References

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Certifications

Crash Course on Python
Google Certification
(via Coursera)

Foundations of User Experience (UX) Design
Google Certification
(via Coursera)