Kalliopi Christina Despotidou

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Education

MSc **National and Kapodistrian University of Athens** , Network Engineering — Oct 2024 – Present

- **Coursework:** Wireless Networks, Network Security, Network Analysis and Modeling, Reinforcement Learning, Software-Defined Networking
- **Majors:**
  - Wireless Networks and Telecommunications

BSc **National and Kapodistrian University of Athens** , Informatics and Telecommunications — Oct 2020 – Sept 2024

- **GPA:** 8.33/10.0
- **Coursework:** Artificial Intelligence, Data Mining, Digital and Stochastic Signal Processing, Parallel Systems, Information Systems Security
- **Majors:**
  - Software Engineering
  - Wireless Communications
- **Thesis:** Beam Management Strategies for Wireless Communications with Reconfigurable Intelligent Surfaces
- **Supervisor:** George C. Alexandropoulos, Associate Professor NKUA

High School **Model High School of Agii Anargyri** — Sept 2014 – June 2020

- **GPA:** 20.0/20.0
- **Extracurricular Activities:** Member of the C the Programming Club, Physics Club and Running Team
- **Admissions:** Ranked 13th out of 408 students in the entrance exams.

Experience

Telecom Network Junior Engineer, Huawei Greece — Apr 2025 – Present

- Joined as a Wireless Team intern, handling RET configuration and contributing to the 5G modernization project.

Teaching Assistant, National and Kapodistrian University of Athens — Oct 2024 – Present

- **Courses:** Introduction to Programming, Introduction to Computer Security
  - Graded assignments, conducted oral exams and supported students.
- Merit-based scholarship covering master's tuition in exchange for teaching duties.

Research Assistant, NOESYS Lab, National and Kapodistrian University of Athens — Apr 2024 – Oct 2024

- Conducted my BSc thesis, attended group meetings and contributed to ongoing projects.

Private Math Tutor — 2021–2023

- Provided one-on-one math tutoring for primary and high school students.

Volunteering

Conference Volunteer – Registration and Speaker Support, IEEE International Symposium on Information Theory — Athens, Greece, July 2024

- Managed attendee registration and facilitated effective communication between organizers and participants, ensuring seamless event operations.

Projects

Berkeley Pacman Project

- Implementations of Project 1 and Project 2 from Berkeley's CS188 course, featuring search algorithms (DFS, BFS, A*) and multi-agent systems with Artificial Intelligence for the Pacman game.

Multi-Threaded File Server

- Multi-threaded file server for handling concurrent client requests using shared memory, semaphores and pthreads.

xv6 Operating System Project

- A solution to the Operating Systems course project, based on the XV6 operating system. Implements key concepts in operating systems, including process management and system calls, in a modern RISC-V environment.

Computational Geometry Project

- Implementation of computational geometry algorithms for the course Computational Geometry, including convex hulls, Voronoi diagrams, Delaunay triangulations, and linear programming.

Network Simulation

- Simulating a sensor network using WiFi-Mininet simulator and the Thingsboard.

LMS Adaptive Filtering

- MATLAB scripts for implementing and analyzing adaptive filtering using the Least Mean Squares (LMS) algorithm.

Linux Terminal Simulator

- Developed a Linux terminal simulator in C++, replicating core functionalities such as command execution, file manipulation, and process management.

Multi-Threaded Voting System

- Designed and implemented a multi-threaded voting system in C++, featuring a network server for vote handling, a batch client for automated testing and bash scripts for vote tallying and log processing.

Deep Reinforcement Learning with Gym

- Implemented Deep Q-Network (DQN) in PyTorch for Gym environments.
- Applied advanced techniques like Double DQN, Dueling Networks, PPO, A2C, conducted hyperparameter tuning and explored LSTM/GRU/Transformer models.

Skills

Languages: Python, C, C++, Matlab, SQL, JavaScript

Technologies: Pytorch, Hugging Face, Git, GitHub, Pandas, NumPy, SQL, Linux, Windows

Soft Skills: Team Player, Listener, Communicative, Positive, Critical Thinker, Work Enthusiast, Strong Work Ethic, Time Management

Languages: Greek (Native), English (Proficient), French (Proficient), Spanish (Intermediate)