

Georgios Kekkou

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Larnaca, Cyprus

RESEARCH INTERESTS

- Computer Architecture: Parallelism, Multicore, Multithreaded
- Operating Systems, Virtual Memory, Compilers
- VLSI Design & Testing

EDUCATION

• University of Cyprus

BSc, Computer Engineering

◦ GPA: 9.33/10.00 (Excellent)

◦ Concentration area: Computer Hardware Systems and Intelligent Systems.

◦ Technical Electives: Computer Architecture, CAD for VLSI, Digital Design with FPGA, Fault Tolerant Systems, Intelligent Systems, Digital Signal Processing.

September 2021 - May 2025

Nicosia, Cyprus

• Makarios III Lyceum of Larnaca

Secondary Education

June 2020

Larnaca, Cyprus

◦ Grade: 19.33/20 (Excellent)

◦ Positive Sciences: Mathematics, Physics, Information Technology, Cisco Networks.

EXPERIENCE

• Teaching Assistant

September 2025 - Present

Nicosia, Cyprus

Department of Electrical and Computer Engineering, University of Cyprus []

◦ Course in charge: Computer Aided Design (CAD) for VLSI.

◦ Responsible for the lab sessions of the course.

◦ Prepare and update lab materials including tutorials and exercises.

◦ Review and mark student's assignments.

• Research Engineer

July 2025 - Present

Nicosia, Cyprus

KIOS Research and Innovation Center of Excellence []

◦ Review and analyze literature on VLSI testing problems to identify relevant research directions.

◦ Explore potential innovative approaches that utilize modern machine learning techniques.

◦ Reproduce and validate experimental results from prior studies to establish potential gaps for further research.

◦ Research Area: VLSI Testing, Machine Learning.

• Summer Research Intern

June 2024 - July 2024

College Station, Texas, United States

Texas A&M University []

◦ Designed a converter tool that combines multiple serverless functions together.

◦ Deployed Knative serverless functions to a Kubernetes-based cluster.

◦ Apply compiler parsing ideas to design my tool.

◦ Study research papers in the serverless computing domain.

• QA Automation Engineer Intern

June 2023 - August 2023

Larnaca, Cyprus

HF Markets []

◦ Developed automated tests using the Selenium WebDriver to test web applications.

◦ Designed customized pipelines for integration and testing using the Groovy programming language.

◦ Executed and managed pipelines through the Jenkins CI/CD platform.

◦ Developed automated tests for the mobile application using Selenium and Appium dedicated for Android and iOS.

◦ API testing using Postman, plus integrating them in CI/CD pipelines using Newman.

◦ Additional: containerization using Docker, remote testing using Selenium Grid and Zalenium, automated alerts using Python, SQL database manipulation.

PROJECTS

- **Bachelor Thesis: Predicting hard-to-detect faults using Machine Learning** September 2024 - May 2025 [🔗]
Tools: C++, Python, Multiprocessing, Machine Learning , VLSI Testing
 - Developed framework for parsing digital circuit, converting to graph, and extracting structural features
 - Implemented Parallel Fault Simulation that schedules the workflow on a multicore machine
 - Constructed Graph Convolutional Network and Support Vector Machine models for classification
 - Experimented with the developed Machine Learning models to predict hard-to-detect faults
- **Texas A&M Summer Internship Project: Serverless Workflow Function Converter** June 2024 - July 2024 [🔗]
Tools: Python, Kubernetes (K3s), Docker, Virtual Machine
 - Developed a compiler-based converter to convert serverless workflows
 - Set up Knative cluster inside a VM to deploy serverless functions using K3s
- **Computer Architecture Lab 5: Cache Simulator** November 2023 - December 2023
Tools: C++, Object-Oriented Programming (OOP)
 - Cache Specifications: Single Word Blocks, Variable Number of Blocks and Ways
 - Cache Organization: Direct Mapped, Set Associative, Fully Associative
 - Cache Replacement: Least Recently Used (LRU), Static Re-Reference Interval Prediction (SRRIP)
- **Computer Architecture Labs 1-4: Processor Simulator** September 2023 - December 2023
Tools: C++, Object-Oriented Programming (OOP), Parser, Implemented: ALU, Memory, Control Unit
Microarchitectures:
 - Lab 1: Single Cycle
 - Lab 2: Multi Cycle
 - Lab 3: Pipeline - Hazard Free
 - Lab 4: Pipeline - including Hazard Detection and Forwarding Units

SKILLS

- **Programming Languages:** C/C++, Python, Java
- **Programming Concepts:** OOP, Multiprocessing, Multithreading
- **Web Technologies:** HTML, CSS, JavaScript, Bootstrap, Flask
- **Database Systems:** MySQL, SQLite
- **Machine Learning:** PyTorch, Scikit-learn
- **Developer Tools:** Linux, Bash Scripting, Git, Makefile, Docker
- **Specialized Area:** Computer Architecture, VLSI Testing
- **Other Tools & Technologies:** Selenium WebDriver, CI/CD Pipelines

HONORS AND AWARDS

- **Award for Best Academic Performance in Computer Engineering** June 2025
Faculty of Engineering at the University of Cyprus
- **Award for Best Bachelor Thesis project in Computer Engineering** June 2025
Faculty of Engineering at the University of Cyprus
- **Highest GPA among Computer Engineering Students** 2021-2025
Faculty of Engineering at the University of Cyprus
- **Second Place in The 3-Minute CSR Video Challenge** April 2025
MENA Business Schools Alliance for Sustainability (MEBAS)
- **Seeds for the Future Scholarship** March 2025
Huawei Technologies (Cyprus)
- **Full Travel Grant Recipient** June 2024
uArch/ISCA 2024

- **Scholarship for Higher Education studies** 2021-2025
Panagiotis and Ellis Malli Foundation
- **Scholarship for Undergraduate Studies (IKYK)** 2021-2025
Cyprus State Scholarship Foundation
- **Achieved 1st place in Cyprus-wide Pancyprian Examinations (Computer Engineering, UCY)** July 2020
Pancyprian Examinations 2020

PROFESSIONAL MEMBERSHIPS

- **IEEE - Institute of Electrical and Electronics Engineers** *August 2024 - Present*
- **IET - Institution of Engineering and Technology** *October 2022 - Present*

CERTIFICATIONS

- **CS50x Introduction to Computer Science:** [View Certification](#) *December 2022*
- **CCNA R&S: Routing and Switching Essentials** *May 2020*
- **CCNA R&S: Introduction to Networks** *May 2019*

ADDITIONAL INFORMATION

Hobbies & Interests: Exploring computer hardware, learning about emerging technologies and fitness training.
Languages: English (proficient), Greek (native)