

# Chris Liourtas

## COMPUTER SCIENTIST

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### PROFESSIONAL SUMMARY

Recreational programmer and computer science enthusiast. Aspiring researcher with a focus and passion for programming languages and compilers. Loves Open Source Software, Linux and self-hosting a plethora of modern technologies in a custom home lab. Avid reader that keeps in touch with the latest developments of tech on both industry and academia.

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### EDUCATION

#### BSc (Hons) Cyber Security and Networks | 2022-2025

University of East London

#### BSc Information and Communication Systems Engineering | 2020

University of Aegean

### RESEARCH | PUBLICATIONS

#### **Data Communication on Automated Systems (A Comparative Approach) | Thesis**

- Researched the inner workings of the ESP32-C6 microcontroller along with two separate real-time operating systems (Embassy and FreeRTOS).
- Implemented an IoT-inspired system that communicates data via MQTT to the web in both operating systems.
- Measured, analyzed and interpreted data for memory and CPU of both platforms, arriving at interesting conclusions that are of interest of the users of the specific microcontroller.

#### **Compiler Implementations and Design | Blog Series (on-going)**

- Combining Programming Language Theory and Software Engineering with the goal of presenting unique and interesting ideas for compiler creation.
- Revisited the design trade-offs between compile-time and subtype polymorphism for AST representation in modern C++, resulting in a unified operator-enabled AST design.
- Laid the ground work for implementing code generation on future publications using the LLVM framework.

### EXPERIENCE

#### Noesis | Startup

Volunteer

- Researched possible solutions for on-device training of AI models on resource-constrained devices.
- Developed internal tooling for reconstructing, smoothing, and preparing human 3D scans for on-premise 3D printing workflows.

### CERTIFICATIONS

- University of Patras, Analysis and Programming of Automated Systems (APAS)
- DevelopingU, Introduction and Usage of Docker Containers

### SKILLS

- C, C++, Rust, Java, Python
- Linux
- Containerization technologies
- Virtualization technologies

### LANGUAGES

- Greek: Native
- English: Bilingual