Petros Papagiannis

he/him

Personal info

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📞 **********
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📍 ********** Patra, Greece

Links

🌐 papagiannispetros.github.io
🐙 /PapagiannisPetros
in /PetrosPapagiannis

Skills

- **Programming Languages:** C, C++, Python, Bash, PHP, JavaScript, TypeScript, Node.js, C#, Java
- **Databases:** MySQL, SQLite
- **Web Development:** HTML5, CSS3, Bootstrap, Responsive Design
- **UI/UX & Design:** Figma, Adobe XD, Wireframing, Prototyping
- **Data Science & AI:** TensorFlow, PyTorch, scikit-learn, Pandas, NumPy
- **Tools & Platforms:** Git, GitHub, Docker, Jupyter Notebook
- **Operating Systems:** Linux (Ubuntu, Debian, Kali), Windows
- **Software:** Visual Studio Code, MATLAB, IntelliJ IDEA, Microsoft Office, LibreOffice, Adobe Acrobat

Work Experience

S.M.A.R.T.S.
Part-time, Junior Developer
Jun 2025 and ongoing

- Full-Stack Development
    - Backend APIs and server-side logic
    - Frontend integration and responsive UI
    - End-to-end UI/UX design and implementation
- Application Architecture
    - Database design and management
    - API design and integration
    - Performance optimization and scalability
- Web Mobile Interfaces
    - User-centric design and usability testing
    - Interactive and dynamic web components
- Collaboration Tools
    - Version control (Git) and CI/CD pipelines
    - Agile workflow and team coordination

Academic Experience

Computer Engineering & Informatics Department (CEID) – University of Patras
Teaching Assistant - Differential Equations & Applied Mathematics
Oct 2024 Feb 2025

- Assisted in delivering lectures and facilitating practical problem-solving sessions.
- Provided one-on-one support to students on assignments and projects.
- Contributed to the preparation and grading of coursework and exams.

Lab Instructor - Mathematical Foundations in Computer Science
Oct 2024 Jun 2025

- Designed and conducted laboratory sessions on algorithms, formal logic, and proofs.
- Guided students in applying theoretical concepts to practical exercises.
- Assessed lab submissions and provided detailed feedback for improvement.

Education

Computer Engineering & Informatics Department, University of Patras (Undergraduate)

PATRAS, GREECE   OCT 2022 AND ONGOING

Current Grade: ***

In-depth study: Artificial Intelligence - Machine Learning
Subsidiary subject: Cyber Security

School Education, High school

KOZANI, GREECE   SEP 2019 – JUN 2022

Degree: Secondary school leaving certificate

Grade: ***

Elective Courses: Mathematics, Physics, Chemistry

School Education, Middle school

KOZANI, GREECE   SEP 2016 – JUN 2019

Degree: Secondary school leaving certificate

Grade: ***

Elective Courses: Mathematics, Physics, Chemistry

PETROS PAPAGIANNIS
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Languages

- Greek (Mothertounge)
- English (C2)
- French (B2)

Professional Summary

Motivated and versatile Computer Engineering undergraduate with strong expertise in backend, frontend, and full-stack development. Experienced in designing APIs, building scalable web applications, and crafting user-centered interfaces. Skilled at bridging technical and creative solutions, with a passion for problem-solving, continuous learning, and delivering high-quality software.

Key Strengths

- Problem-Solving
- Team Collaboration
- Adaptability
- Project Management
- Full-Stack Development
- Analytical Thinking

Certificates and Participations

2016	Mathematics Award "Efklidis"
2023	Participation in Best Patras Bootcamp for Full-Stack Development
2024	Teaching Assistant Differential Equations and Applied Mathematics
2025	Lab Instructor Mathematical Foundations in Computer Science
2025	Reference: Prof. Athanasios Andrikopoulos, CEID, University of Patras

Recommendation letter available upon request.

PROJECTS

Managing Authorities Chatbot

SMARTS   2025

Full-stack conversational AI system for Managing Authorities, combining Natural Language Query (NLQ) and Context-Aware Generation (CAG) with the Gemini 2.5 Flash LLM. Includes a complete back office for usage statistics, query analytics, and automated data updates. Delivers accurate, context-rich responses while ensuring the knowledge base stays continuously refreshed for reliable, up-to-date information access.

Python, HTML, CSS, Javascript, Docker, Voiceflow, OpenAI API, MySQL, AJAX

Destination Piraeus Chatbot

SMARTS   2025

Full-stack web chatbot for destinationpiraeus.com, built with a Python backend and responsive frontend, powered by OpenAIs GPT-3.0. Leverages AI and conversational AI to provide real-time, context-aware answers about Piraeus attractions, events, and travel information. Features custom prompt engineering, dynamic response handling, and seamless website integration for an engaging tourism experience.

Python, HTML, CSS, Javascript, Docker, Voiceflow, OpenAI API, MySQL, AJAX

Collaborative Thesis Management System

CEID   2025

A Node.js and MySQL web application designed to streamline the administrative process of university diploma theses. Supports students, professors, and administration roles for managing thesis topics, supervision, committee approvals, progress tracking, and final evaluations. Enables collaborative workflow with topic assignment, multi-member committee agreement, document sharing, presentation scheduling, and grading, all within a unified platform.

HTML, CSS, Javascript, NodeJS, MySQL, Figma

UniBook Collaborative Note Sharing Platform for Students

CEID   2025

Cross-platform desktop app built with Python to enhance student collaboration. Provides a centralized platform for sharing course notes, discussions, and study organization, supporting both student and admin roles with features like uploads, comments, chat forums, and admin moderation.

Python, QTCreator, Robustness Analysis, Project Management

Multi-Core Process Scheduler for Unix (FCFS, RR, RR-AFF)

CEID   2025

A Unix-based multi-core process scheduler implemented in C, supporting FCFS, Round Robin, and Round Robin with Processor Affinity. This project explores CPU scheduling algorithms, multi-core management, and Unix process control using fork, exec, and signals, with detailed performance tracking for each policy.

C, Unix, Multi-core Process Scheduling, Scheduling Algorithms

Multi-Core Process Scheduler OS Utilities

CEID   2024

Unix-based project developed in C and Shell scripting, featuring multiple scheduling algorithms (FCFS, RR, SJF, and more), process synchronization using semaphores, memory management simulation, and passenger data processing with awk/sed/grep. It simulates a survival mission with boats and passengers.

C, Shell scripting, Semaphores, Memory Management, Scheduling

Hobbies

- 🏃 Basketball, Gym, Swimming
- 💻 Exploring emerging technologies, Freelance IT projects
- 🌐 Traveling and cultural exchange
- 📖 Reading tech blogs and scientific articles