

# Dionysia Theofylaktou

Java Developer | Backend & Mobile Development

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## Professional Summary

*M.Sc. Advanced Informatics graduate transitioning from education to software development, with hands-on experience in Java, Spring Boot, and backend systems through academic research and recent project development.*

## Technical Skills & Languages

- **Core Technologies:** Android SDK, Java, Spring Boot, Python, Hibernate, JPA
- **Databases & Cloud:** MySQL, PostgreSQL, NoSQL, Cloud Firestore, Firebase
- **Languages:** Greek (Native), English (Professional)
- **Development Tools:** Maven, Docker, Git, UML, IntelliJ IDEA
- **Architecture:** RESTful APIs, Microservices, Design Patterns

## Education

**2019 - 2022 M.Sc. Advanced Informatics and Computing Systems | University of Piraeus**  
*Grade: 9.03/10 • Specialization: Advanced Software Development Technologies*

**2008 - 2019 Diploma Applied Mathematical and Physical Sciences | NTUA**  
*Grade: 6.5/10 • Major: Engineering Physics*

## Research Projects & Publications

- 2018 - 2019 Computational Application for Natural Products Database | NTUA Thesis**  
Computational platform analyzing 562 research articles, 87 organisms, and 105 target genes. NoSQL database with Firebase hosting. <https://doi.org/10.1155/2021/9993518>
- 2021 - 2022 Personalized ID using European Blockchain Infrastructure | University of Piraeus Thesis**  
Blockchain-based identity management system with Self-Sovereign Identity principles and verifiable credentials. <https://dione.lib.unipi.gr/xmlui/handle/unipi/14917>

## Personal Projects

- 2025 Course Management System | Spring Boot & PostgreSQL**  
RESTful API with Java 21, Spring Boot 3.4.5, complete CRUD operations, course enrollment, pagination, OpenAPI docs, Docker deployment. <https://github.com/dioni-theof/course-management>
- 2025 Reservation System | Spring Boot & PostgreSQL**  
Booking management system with Java 21, resource availability tracking, scheduling APIs, capacity management, Swagger UI. <https://github.com/dioni-theof/reservation-system>
- 2025 SmartAlert Emergency Mobile App | Android & Firebase**  
Emergency alert Android app with fire/fall detection, automatic SOS, multilingual support (EN/GR/ES), Java 11, Firebase backend. <https://github.com/dioni-theof/smart-alert>

## Work Experience

- 2024 - 2025 Computer Science & Networks Instructor | Karakaxis (EPAL), Greece**  
Taught Python programming and Computer Networks, achieving exceptional results with 4 students scoring 90%+ in national exams
- 2023 - 2024 Computer Science & Physics Teacher | Diakrotima, Greece**  
Taught the algorithms and pseudocode curriculum to final-year high school students, developed structured lesson plans for complex technical concepts, and supported exam preparation for the national university entrance exams with interactive teaching methods.
- 2021 - 2023 Academic Lead – Science Subjects | Mikro Panepistimio, Greece**  
Led curriculum development and project management, implemented data-driven progress tracking systems, managed personalized learning plans across multiple academic levels with stakeholder collaboration
- 2019 - 2020 STEM Instructor | Mouseio Peiramaton, Greece**  
Designed hands-on programming activities with LEGO® Education kits, taught mechanics and electronics principles, mentored students in logical thinking and project-based problem-solving