

Michalis Karaoulas

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Nationality: Greek

Education

Aristotle University of Thessaloniki – Department of Informatics

BSc in Computer Science (*Expected Graduation: 2025*)

Relevant Courses: Network Security, Cloud Technologies, Artificial Intelligence, Software Engineering, Web Development

Technical Skills

Languages: Python, Java, C/C++, PHP, SQL, HTML/CSS, SPARQL, MATLAB

Libraries & Frameworks: Flask, Selenium, BeautifulSoup, Pandas, NumPy, scikit-learn

APIs & Auth: REST APIs, OAuth 2.0, OpenID Connect, JWT

Cloud & DevOps: AWS (EC2, S3, IAM), Docker, GitHub Actions, CI/CD

Security: RSA/ECC, Auth Tokens

Databases: MySQL, PostgreSQL

Tools: Git, Linux, Jupyter, WordPress

Practices: Unit Testing, Agile, Version Control

Key Projects

- ♦ **DigVer – Digital Credential Issuer & Verifier**

GitHub: [DigVer](#)

Flask web app simulating eIDAS-compliant digital credentials using asymmetric cryptography and QR sharing.

♦ **FlowerPred – Flower Image Classifier**

GitHub: [FlowerPred](#)

Web app using HuggingFace image classifier. Supports multilingual predictions (Greek/English).

♦ **Distributed Messaging System (Java RMI)**

Built a multithreaded messaging app with authentication tokens using Java RMI.

♦ **Insurance Contracts Analysis (Python)**

Processed XML-based insurance data with pandas and visualized insights using matplotlib; built a simple Random Forest predictor.



Professional Experience

Insurance Office Assistant (2022–2024)

- Managed insurance contracts, supported customers
 - Built Python scripts for internal analytics
 - Used Bluebyte software for policy management
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Personal Interests

- Digital Identity & Authentication
- Machine Learning & AI
- Secure Web Development
- Cloud Computing (AWS)