



# Nikolaos **Rotas**

SOFTWARE ENGINEER

Patras, Greece

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## Summary

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Motivated and resilient software engineer with a strong foundation in computer engineering and a passion for building real-world applications. Experienced in both solo and team projects, including desktop apps, automation, and game-related tooling. Eager to grow as a developer and contribute to meaningful software solutions.

## Technical Skills

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Python, JavaScript, C, Electron, PyQt5, SDL, Git & GitHub, GUI Development, Encryption, Algorithms, NLP,

## Projects

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Marauder — Interactive Fiction Auto-Mapper [github.com/rotasn/marauder](https://github.com/rotasn/marauder)

Auto-generates maps for text-based adventure games using rule-based NLP and traversal algorithms.

- Implemented auto-mapping using rule-based parsing
- Quick travel with BFS; auto-exploration with DFS
- Built layered UI; implemented save/load in JSON

File Encryptor [github.com/rotasn/file-encryptor](https://github.com/rotasn/file-encryptor)

Simple GUI-based file encryption tool.

- Built with PyQt5 and Python cryptography
- Fernet symmetric encryption and PBKDF2
- Password strength checker + backup support

Connect 4 GUI [github.com/rotasn/connect4](https://github.com/rotasn/connect4)

Playable GUI-based Connect 4 game with basic AI

- Implemented AI opponent
- Mouse/keyboard controls + visual enhancements

## Work Experience

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Senior Data Curator (Freelance) — Veeva Systems (via Upwork)  
Dec 2021 – Mar 2023 (Remote)

- Maintained 98% data accuracy
- Collaborated with international teams

Intern — Informatics Department, University Hospital of Patras  
Jun 2021 (Patras, Greece)

- Assisted IT support
- Gained exposure to hospital information systems and networks

Team Leader & Worker — WEST SA (Advertising)  
Aug 2018 – May 2021 (Patras, Greece)

- Managed distribution operations
- Supervised 5–7 staff; led van-based routing

## **Education**

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Integrated Master's (MSci) in Electrical and Computer Engineering

University of Patras — Graduated March 2025

- Focus: Software, Algorithms, Intelligent Systems
- Thesis: Development of Interactive Fiction Mapping Application

## **Languages**

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**Greek** Native

**English** Advanced (Cambridge FCE)

**German** Intermediate (Goethe B1)

## **Soft Skills**

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Teamwork  
Problem-solving  
Adaptability

## **Interests**

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Gardening  
Aquascaping  
Animal rescue and stray animal support