

# Nikolaos Pnevmatikos

computer science student

## personal info

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<https://www.linkedin.com/in/nick-pnevmatikos-34b747240/>

### github link

<https://github.com/Nik-Pnevmatikos>

## technical skills

java  
c / c++ / c#  
python (django)  
javascript (reactjs, redux)  
mips / assembly  
mysql  
databases  
restapi(django\_rest\_framework)  
unreal engine  
latex  
unity  
git  
matlab  
compilers  
system programming  
data structure

## languages

**greek** native speaker  
**english** C2

## Education

september 2019

- present

### BSc in Computer Science with specialization in software

Department of Informatics and Telecommunications | National and Kapodistrian University of Athens

## Projects

### Ecommerce WebSite

developed using django and react | team project

- Created an online auction system.
- Added a recommendation system for products implementing the matrix factorization algorithm.

### Rpg like terminal game

developed using object oriented programming in C++ | team project

- A simulation game with turned based combat, inventory and item handling similar to retro games, all running from a linux terminal.
- System call "clear" makes the illusion of movement when your character travers through the map.

### Implementation of "Conways Game of life"

developed using data Structures in C | individual work

- developed a new data structure "LifeState" using the ADTSet library to target the problem.
- implemented a gif visualization of the problems in order to achieve a graphic representation of the result.

### Berkeley pacman AI project

developed using Python | individual work

- Implemented depth-first, breadth-first, uniform cost, and A\* search algorithms to solve navigation and traveling salesman problems in the Pacman world.
- Implementing minmax, expectimax and evaluation functions to target the multi agent pacman problem

### Implementation of a compiler for the MiniJava Language

developed using Java, jflex, java-cup and LLVM | individual work

- implementation of a LL(1) parser for a simple calculator for logical operations
- a translator to Java for a language for string operations
- MiniJava Static Checking
- generating intermediate code MiniJava to LLVM