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| **.**  **.**  **Nikolas Iliopoulos, BSc** Software Engineer | **Information**  ✉ [iliopoulos.info@gmail.com](mailto:iliopoulos.info@gmail.com)  📞 +30 694 29 48 851  [linkedin.com/in/nikolasiliopoulos](https://www.linkedin.com/in/nikolasiliopoulos)  [github.com/nikolasil](https://github.com/nikolasil) |

## **Experience**

[**ICAP CRIF**](https://www.icapcrif.com/en/)

**Software Engineer |** Outsourced by [Agile Actors](https://www.agileactors.com/) **|** 02/2022 – Present

* Converted monolithic programs to a web services-oriented architecture.
* Developed 3 Restful APIs and maintained about 8 Restful APIs using Spring Boot and deploying them with Jenkins and Docker. Scalability and reliability always are top priority.
* I had the chance to use Playwright to build a web crawler. I discovered various flaws in the website that allowed the crawling to operate much faster.
* Used threads to make a time consuming task (1 day) almost 50% faster.
* Used ABBY OCR and Apache Tika to apply regex and extract data from documents.
* My main programming language is Java, especially version 11 but I worked with 8 and 17.

## **Education**

**Bachelor's degree in Computer Science |** 10/2018 – 02/2023 **|** Grade: 7.36

[National & Kapodistrian University of Athens](https://en.uoa.gr/), [Department of Informatics and Telecommunications](https://www.di.uoa.gr/en)

## **Projects**

* [**BidPoint**](https://github.com/nikolasil/BidPoint)**:** A platform where you can bid for items.  
  Used **React.js (Javascript)** for the Frontend and **Spring Boot (Java)** for the Backend. Features:
  + OAuth2, Signup with acceptance from Admin Page
  + Crud operations for items
  + Bidding logic: winner, synchronized bids, etc.
  + Recommendation algorithm
* [**InvertedSearchEngine**](https://github.com/nikolasil/InvertedSearchEngine)**:** (SIGMOD) A Keyword Matching in documents in **C++.** Developed Trees, Hash Tables and Lists. Word matching with edit and hamming distance.  
  (1 thread: 1395ms. Best time with 5 threads: 520ms)
* Compiler Projects
  + [**Intermediate code LLVM creation**](https://github.com/nikolasil/compilers3)
  + [**Compiler for MiniJava (subset of Java)**](https://github.com/nikolasil/compilers2)
* Artificial Intelligence & Machine Learning Projects
  + **Berkeley Pacman** [**Project 1**](https://github.com/nikolasil/Berkeley-Pacman-Project-1)|[**Project 2**](https://github.com/nikolasil/Berkeley-Pacman-Project-2)**:** Implemented depth-first, breadth-first, uniform cost, A\* search, multiagent minimax and expectimax algorithms, as well as designing evaluation functions.
  + [**Transformers**](https://github.com/nikolasil/ai_2_exercise_4)|[**RNN with LSTM & GRU cells**](https://github.com/nikolasil/ai_2_exercise_3)|[**FeedForward Neural Network**](https://github.com/nikolasil/ai_2_exercise_2)

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| * Spring Boot, Maven and Spock * Spring Data, Spring Security * Apache Kafka, Tika, Poi * RabbitMQ * Redis for cache * Node.js with Express.js | * C, C++, Java, Javascript, Python * PyTorch, pandas, Scikit-Learn * Docker, Docker Compose, Kubernetes * ElasticSearch * SQL & NoSQL (Mongo, Postgres, Db2, MySQL) * React |

## **Skills**

## **Languages**

* Greek, native
* English