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| **.**  **.Nikolas Iliopoulos, BSc** Software Engineer | **Information**   |  |  |  |  | | --- | --- | --- | --- | | ✉ | [iliopoulos.info@gmail.com](mailto:iliopoulos.info@gmail.com) | **174857** | [LinkedIn](https://www.linkedin.com/in/nikolasiliopoulos/) | |  | US Green Card Holder |  | [GitHub](https://github.com/nikolasil) | |

## **Experience**

**Senior Software Engineer |** [TÜV AUSTRIA](https://en.tuv.at/) **|** 08/2024 – Present

* Collaborating in an **agile team** to develop and enhance a client portal, enabling users to securely access and manage their data.
* Drove the **platform’s evolution** by integrating various tools and functionalities, transforming it into a comprehensive **multi-functional solution** that consolidates **multiple services** within a unified interface.
* Actively contributed in **feature discussions** and **architectural decisions**.
* Providing technical expertise to both **frontend** and **backend** **services**, ensuring seamless integration and performance across the entire stack using **Javascript** and **Java** **Spring Boot.**
* Addressing complex technical challenges, **optimizing system performance**, and implementing iterative improvements based on user feedback and evolving needs.
* Created **ETL workflows** using **Python** with **FastAPI** to extract transform and load data to the database.

**Medior Software Engineer |** [Agile Actors](https://www.agileactors.com/) **|** 07/2022 – 08/2024

**Junior Software Engineer |** [Agile Actors](https://www.agileactors.com/) **|** 02/2022 – 07/2022 **|** Internship (6 Months)

* Took **ownership** of key projects, demonstrating strong problem-solving skills and delivering high-quality results.
* Led the transformation of a **monolithic system** into a **web services-oriented architecture**, improving scalability and maintainability.
* Developed a **web crawler service** to enrich database, integrated via **event-driven architecture** using **Apache Kafka**.
* Built and deployed a **company-wide CI/CD pipeline**, utilizing **Jenkins** and **Docker**, ensuring efficient, reliable, and scalable deployments.
* **Introduced unit tests** with **Spock** improving backend component reliability and reducing bugs.
* Played a key role in **architectural decisions** and implemented solutions using **Java** (versions 6-21) and **Spring Boot**.

## **Education**

**Bachelor's degree in Computer Science |** 10/2018 – 02/2023 **|** Grade: 7.36/10 ~ 3 GPA

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

* Worked with C, C++, Java, Python, Javascript, Assembly
* Good understanding and manipulation of Data Structures
* Algorithms & Problem Solving
* Multi Threading & Shared Memory

[**InvertedSearchEngine**](https://github.com/nikolasil/InvertedSearchEngine) (SIGMOD) A Keyword Matching in documents implemented in C++.

Developed Trees, Hash Tables and Lists. Word matching with edit and hamming distance.

(1 thread: 1395ms. Best time with 5 threads: 520ms)

* Compilers: [**Intermediate code LLVM creation**](https://github.com/nikolasil/compilers3) **|** [**Compiler for MiniJava (subset of Java)**](https://github.com/nikolasil/compilers2)

## **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:
  + JWT, Admin Page
  + Crud operations
  + Bidding logic: winner, synchronized bids, etc.
  + Recommendation algorithm
* 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)

## **Skills**

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| * Spring Boot * Maven and Gradle * Spring Data JPA * Spring Security * Apache Kafka * Apache Tika * Apache Poi * Grafana, Prometheus | * Java, Javascript, Typescript, Python * Node.js, Express.js, FastApi * Docker, Docker Compose, Kubernetes * ElasticSearch * SQL, NoSQL (Mongo, Postgres, Db2, MySQL, Oracle) * React.js, Next.js * Redis * Spock |

## **Languages**

* Greek (Native language)
* English (Fluent in both spoken and written communication)