Nikolas Iliopoulos, BSc
Software Engineer

Information

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Experience

Senior Software Engineer | TÜV AUSTRIA | 08/2024 – Present
- Collaborate in an **agile team** to design, develop and enhance a client portal, enabling users to access and manage their data.
- Drove the **platform evolution** by integrating multiple tools and functionalities, transforming it into a **unified solution**.
- Actively participate in **feature planning** and **architectural decisions,** ensuring scalable and maintainable designs.
- Provide end-to-end technical expertise across **frontend** and **backend services**, using **Javascript** and **Java Spring Boot**, ensuring seamless integration and high performance.
- Address complex technical challenges, **optimize system performance,** and implemen iterative improvements based on user feedback and evolving needs.
- Developed **ETL workflows** with **Python** using **FastAPI** streamlining data extraction, tranformation and loading processes.

Medior Software Engineer | Agile Actors | 07/2022 – 08/2024
Junior Software Engineer | Agile Actors | 02/2022 – 07/2022 | Internship (6 Months)
- **Owned** and delivered key projects, demonstrating strong problem-solving capabilities and high-quality outcomes.
- Led the migration from a **monolithic system** to a **web services-oriented architecture,** enchancing scalability and maintainability.
- Implemented multithreading with custom thread pools to optimize the Spring Boot services.
- Built a **web crawler service** for database enrichment, integrated via **event-driven architecture** using **Apache Kafka**.
- Designed and deployed a **company-wide CI/CD pipeline** with **Jenkins** and **Docker,** ensuring reliable and scalable deployments.
- Introduced **unit tests** with **Spock** increasing backend reliability and reducing production bugs.
- Constributed to **architectural decisions** and implemented solutions across **Java** and **Spring Boot** enviroments.

Education

Bachelor's degree in Computer Science | 10/2018 – 02/2023 | Grade: 7.36/10 ~ 3 GPA
National & Kapodistrian University of Athens, Department of Informatics and Telecommunications
- Worked with C, C++, Java, Python, Javascript, Assembly
- Good understanding and manipulation of Data Structures
- Algorithms & Problem Solving
- Multithreadin, Concurency & Shared Memory
  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** | **Compiler for MiniJava (subset of Java)**

Projects

- **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** | **Project 2:** Implemented depth-first, breadth-first, uniform cost, A* search, multiagent minimax and expectimax algorithms, as well as designing evaluation functions.
  - **Transformers** | **RNN with LSTM & GRU cells** | **FeedForward Neural Network**

Skills

- 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