

# Tal Bar

## Software Engineer

linkedin.com/in/talbar-

Bachelor of Science in Computer Science from Tel-Aviv University.

Back-end developer, possess a strong understanding of object-oriented programming principles.

Highly motivated, autodidact, fast learner, high abstract thinking, and problem-solving abilities.

Work well in teams, as well as independently.

### SKILLS

**Tools and Languages** Java, Spring, Python, Perl, C, C++, Git, Docker

**Study Fields** Applied Mathematics, Computer Science

**Communication** Hebrew, English

### EXPERIENCE

#### Back-End Developer

2022 — Present

*AlgoSec**Petah-Tikva, Israel*

- Writing code in Java and Perl.
- Utilizing frameworks such as Spring and Maven.
- Participating in the entire software development lifecycle, from designing and developing solutions to successful rollout and production deployment.
- Implemented test-driven development (TDD) methodologies to ensure robustness and reliability of backend code, resulting in accelerated development cycles and enhanced code quality.
- Scalability, efficiency, and reliability of the application.
- Designing and implementing RESTful APIs.
- Integrating with third-party services.
- Working under time-lines.
- Continuously improving skills and knowledge.
- Having excellent communication skills to collaborate effectively with team members.

#### NOC Engineer

2020-2021

*Trader Tools**Ra'anana, Israel*

- Monitoring the company's trading and IT systems to ensure high availability and uptime.
- Troubleshooting network and server issues in a timely manner to minimize downtime.
- Analyzing system logs and alerts to identify potential issues and taking appropriate action to prevent system outages.
- Managing incidents and working with cross-functional teams to resolve issues.

#### Data Analyst

2019-2020

*iCarbonX**Tel-Aviv, Israel*

- Working with large datasets and performing data cleaning, transformation, and analysis to extract insights.
- Building and maintaining data pipelines to ensure the efficient and accurate processing of data.
- Staying up-to-date with the latest trends and technologies in the field of data analysis and ML.

### EDUCATION

#### Bachelor of Science in Computer Science, Tel-Aviv University

*Applied Mathematics, Machine learning, Graphics, Computer Structure, Data Structures, Algorithms, Data Bases*

#### High School Diploma, Tichon-Hadash Tel-Aviv

*Physics, Math, Biology, English, FIRST Robotics*

### MILITARY SERVICE

#### Kfir Brigade, Fighter

2015-2016

*Ministry of Defense*

2016-2018

### PROJECTS

**Ray Tracing**, Python-based Ray Tracer project that implemented a ray tracing algorithm to generate images from text files. The project simulated the behavior of light rays to produce realistic soft shadows and reflections, requiring advanced mathematics and computer graphics skills.

**Stay Right There**, Python-based Blender plugin project. Analyze the dimensions of the objects and generated custom holders that would securely fit around them, attaching them to a selected object. This project required expertise in 3D modeling, Python programming, and the Blender API.

**K-Means and Spectral Clustering Algorithms**, C-based project to analyze and cluster data sets, enabling the identification of patterns and relationships within the data.