

# Nemat Aloush

Software Engineer

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## SUMMARY

Dynamic Software Engineer fueled by a deep passion for the core principles of software engineering, looking for opportunities where I can learn and make impact. Skills include Python, Java, JavaScript, C#, C++, SQL, and Dart.

## EDUCATION

### Master's Degree in Applied Mathematics and Informatics

Saint Petersburg, Russia | 2023

[ITMO University](#)

Relevant Courses: Machine Learning, Natural Language Processing, Data Visualization, and Algorithms.

### Bachelor's Degree in Software Engineering

Damascus, Syria | 2020

[HIAST Institution](#)

Relevant Courses: Object Oriented Programming, Software Development, Web Development, Database System Applications, Design Patterns, Data Structures, Algorithms, and Project Management.

## ACADEMIC PROJECTS

### [Semantic Search Engine](#)

- Developed a Semantic Search Engine to provide meaningful search results, going beyond literal word matching.
- Utilized Java as the primary programming language and Natural Language Processing and Information Retrieval techniques.
- The engine effectively searches user queries within a dataset of BBC News documents.

### [Air Disasters Analysis](#)

- Conducted an in-depth investigation of a real-world dataset on aviation disasters from 1919 to September 2022.
- Utilized Python and analytical tools to interpret and present complex data through clear, digestible visual graphs, enhancing understanding of aviation safety trends.

## WORK EXPERIENCE

### Teacher Assistant

Damascus, Syria | Apr 2021 - Sep 2021

[Syrian Virtual University](#)

- Led hands-on coding sessions and problem-solving exercises to teach algorithm thinking in C# to first-year software engineering students, improving their foundational knowledge and practical skills.

### Software Engineer Intern

Damascus, Syria | Jul 2019 - Sep 2019

[Syriatel Mobile Telecom](#)

- Developed a [Social Network Analysis](#) system using R programming language.
- Designed a user-friendly system to assist individuals unfamiliar with social network analysis, featuring functions like influencer detection and community discovery.
- Collaborated with two academic supervisors and a technical supervisor, resulting in high-quality work that ranked first among my peers.