

# Curriculum Vitae/Resume

CIHANSER CALISKAN

## Computer Engineering Graduate Program

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### Education

**Yasar University** M.Sc. Computer Engineering **Jun 2023**  
*Thesis: Optimization Problems, Heuristic Algorithms, Artificial Intelligence* **GPA: 3.65/4.00**

**Yasar University** B.Sc. Computer Engineering **Jun 2020**  
Focus: Artificial Intelligence, Computer Graphics **GPA: 2.98/4.00**

### Research Experience

**Multi-Objective Optimization for Job Shop Scheduling Problems** *Researcher* **Jul 2024 – Present**

- Adapting and extending the self-adaptive genetic algorithm from a previous study on permutation flow shop scheduling to solve complex multi-objective job shop scheduling problems.
- Developing new heuristic approaches to manage the trade-offs between conflicting objectives (e.g., minimizing makespan and total tardiness).
- Aiming to publish the findings as a full article in a high-impact, peer-reviewed scientific journal.

**Graduate Thesis Research – Solving Job Scheduling Problem** *Researcher* **Sep 2022 – Jun 2023**

- Developed heuristic and genetic algorithms for solving permutation flow shop scheduling problems.
- Applied artificial intelligence and evolutionary computation techniques to optimize scheduling performance.
- Published results in IEEE ICEEE 2023 conference proceedings.

**Undergraduate Thesis Research – POF: Performance Optimized Fluids** *Researcher* **Sep 2019 – Jun 2020**

- Worked on simulation techniques and optimization strategies for fluid systems using custom algorithms.
- Developed performance optimization methods for computational fluid dynamics applications.

### Publications

C. Çalışkan and K. Erdoğan. Self-adaptive genetic algorithm for permutation flow shop scheduling problems. In *2023 10th International Conference on Electrical and Electronics Engineering (ICEEE)*, pages 207–213, Istanbul, Turkey, 2023. IEEE. doi: 10.1109/ICEEE59925.2023.00045.

### Professional Experience

**Veripark** *Senior Backend Developer* **Jul 2024 – Present**  
⇨ *Izmir, Turkey*

- Designed and maintained scalable backend systems in financial technologies.
- Collaborated with Akbank teams ensuring security and performance in critical banking solutions.
- Developed high-performance financial software solutions with focus on reliability and security.

**Doruk Automation** *Senior Software Developer* **Jan 2021 – Jul 2024**  
⇨ *Izmir, Turkey*

- Developed MES/MOM systems to support Industry 4.0 operations.
- Implemented real-time data collection and visualization pipelines.
- Led software development projects for industrial automation and manufacturing execution systems.

**Technical Skills** 

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Programming Languages	C#, Python, Java, C/C++, MATLAB
Web & Frameworks	REST, SOAP, ASP.NET, Web API, .NET, MVC, WCF
Tools & Technologies	Git, Azure, Unity, Bootstrap, Visual Studio, Azure DevOps
Concepts	OOP, CI/CD, SDLC, AI, ML, Optimization Algorithms
Platforms	Windows, Linux
Languages	Turkish (Native), English (Advanced) – Duolingo English Test: 125/160 (Certificate), German (Beginner)

**Selected Course Work** 

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AI & Algorithms	Mathematical Foundations	Systems & Applications
Advanced Artificial Intelligence	Advanced Linear Algebra	Internet of Things
Artificial Neural Networks	Probability and Statistics	Embedded Systems
Evolutionary Computation	Advanced Information Theory	Object-Oriented Programming
Metaheuristic Optimization	Automata Theory	Data Structures I & II
Modern Heuristics	Discrete Computational Structures	Logic Design
Algorithm Analysis & Complexity	Research Methods & Ethics	Computational Methods