

CAN KOÇAK

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EDUCATION

Koç University (Full scholarship with GPA: 3.92/4)

2020 – 2026

B.S. in Industrial Engineering & Computer Engineering (Double Major) — ranked 2nd in the Industrial Engineering graduating Class of 2026

Istanbul, Turkey

Southern Denmark University

Feb 2024 – June 2024

Erasmus Program

Odense, Denmark

Nanyang Technological University (GPA: 5/5)

June 2023 – July 2023

Summer Exchange Program

Singapore

AWARDS

- Awarded 2019 U18 Turkish Chess Champion and honored National Chess Player.
- Recipient of Koç University full-tuition undergraduate merit-based scholarship (\$30k annually) for ranking 982nd out of over 2.5 million students in Turkey National University Entrance Examination
- Recipient of Government Top 100 scholarship (\$200 monthly) for ranking 54th out of over 2.5 million students in Turkey National University Entrance Examination
- Awarded 3rd out of more than 100 projects in TUBITAK High School Student Research Project Competition
- Participated more than 200 professional international chess tournaments and rewarded with more than 40 medals and cups.
- Achieved a FIDE Standard ELO rating of 2042, ranking 21,334th among millions of active chess players worldwide.
- 3 Vehbi Koc Honor Award (given SPA over 3.75), and 3 Deans Honor Roll
- Experienced in blindfold chess, playing without sight of the board.

TEACHING EXPERIENCES

Private Tutor – Provided private tutoring to students preparing for the International Baccalaureate (IB) exams

Baims Company instructor – Prepared and taught a 20-hour Calculus I course

Baims Company instructor – Designed and delivered a 10-hour course titled Introduction to Python and Programming

Teaching Assistant of Comp125 – Introduction to Python and Programming (Instructor Beren Semiz)

Founder and Lecturer, Kuchess Society – Founded the Koç University Chess Club and led a team for 5 years.

Mentor – Assisted freshman students for their coursework.

INDUSTRIAL EXPERIENCES

Mastercard - Associate Consultant Intern

Jun – Jul 2025

- Applied data analysis and machine learning methods to model and predict customer attrition for a leading Turkish bank.

Pegasus Airlines - Data Analysis Specialist

Sep 2024 – May 2025

- Conducted research on overbooking project to gather information of how to build effective no-show model.
- Collaborated with the Data Science team on forecasting and modeling studies to support evidence-based decision making.

Simon Kucher - Associate Consultant Intern

Mar 2024 – Aug 2024

- Conducted research on global expansion strategies across the US, Mexico, and South Africa, covering over 1,000 products.
- Assisted in developing data-driven insights to evaluate customer value perception and competitive positioning of brands.

Amazon - Vendor Manager Intern

Aug 2023 – Jan 2024

- Analyzed sales data to identify growth opportunities like direct importing well-known brands.
- Conducted in-depth sales data analysis to inform deal strategy and generate analytical reports for decision-making.

PROJECTS

- Reinforcement Learning:** Researched and implemented a Double DQN model in PyTorch for 2D bin packing.
- Industrial Engineering:** Researched and developed a hybrid ES-RNN, XGBoost, SARIMAX, and Croston forecasting framework integrated with MILP-based optimization for steel production planning.
- Prompt Engineering:** Developed an LLM-driven RPG integrating GPT-based narrative generation, dynamic combat logic, and multi-agent coordination mechanisms.
- Software Engineering:** Developed a 2D platformer using object-oriented design principles with a custom level editor and collision detection system.

TECHNICAL SKILLS

Programming Languages

Python, Java, C, Typescript, Dart, Scheme, SQL

Frameworks

Pandas, NumPy, Matplotlib

Softwares

Anaconda, Git, Eclipse, Flutter, Power BI