

NAZIR NAYAL

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EDUCATION

Koç University September 2017 - May 2021
Bachelor of Science, Computer Engineering Senior. Istanbul, Turkey

- Full scholarship funded by Al Ghurair Foundation (AGFE).

Al-Bassel High School for Superiors September 2013 - June 2016
High School Diploma Aleppo, Syria

- Ranked 5 th in Aleppo and among top 5% in Syria.

RESEARCH INTERESTS

- Developing Deep Learning models for Computer Vision and Natural Language Processing problems.
- Representation Learning for vision and language understanding problems.

EXPERIENCE

Hospital on Mobile January 2021 - Present
AI Engineer Remote

- Conducting research and developing AI models for vital signs prediction.

Invent Analytics July 2020 - September 2020
Software Engineering Intern Istanbul, Turkey

- Implemented a machine learning forecasting model based on supermarket products sales data.

Distributed Systems and Reliable Networks Research Laboratory (DISNET) March 2019 - January 2021
Research Intern Istanbul, Turkey

- Implemented Proof of Concept for LightChain, and an augmented version of Skip Graph Data Structure.

Dapper Labs (Based in Vancouver, Canada) August 2019 – December 2019
Software Engineering Intern Remote

- Contributed to the implementation of the first version of the networking layer of Flow Blockchain.

Koç University Office of Learning and Teaching (KOLT) February 2019 – June 2019
Tutor Istanbul, Turkey

- Provided weekly individual tutoring for students of Advanced Programming class on a walk-in basis.

RELEVANT COURSEWORK

- Intro. to Machine Learning
- Advanced Data Analysis w/ Python
- Intro to AI
- Software Engineering
- Deep Learning for Comp Vision
- Algorithms and Complexity

PUBLICATIONS

- Y. Hassanzadeh-Nazarabadi, **N. Nayal**, S. Sameh Hamdan, Ö. Özkasap, and A. Küpçü, "A containerized proof-of-concept implementation of lightchain system," in ICBC. IEEE, 2020.
- Y. Hassanzadeh-Nazarabadi, **N. Nayal**, S. Sameh Hamdan, A. Utkan Şahin, Ö. Özkasap, and A. Küpçü, "Demo: Skip Graph Middleware Implementation", in SRDS 2020.
- Y. Hassanzadeh-Nazarabadi, M. Haji Ali, and **N. Nayal**. "Opera: Scalable Simulator for Distributed Systems" in INFOCOM 2021. (Accepted)

ACHIEVEMENTS

Al Ghurair Foundation for Education STEM scholarship Program (AGFE) September 2017 - Present
Recipient Istanbul, Turkey

- A merit-based award for highly achieving Arab students.
- Admitted among ≈ 100 students out of 15000+ applicants to pursue Computer Engineering at Koç University.

Vehbi Koç Scholar Award 2018 - 2019 - 2020
Award Recipient Istanbul, Turkey

- Received this award for 3 consecutive years for maintaining a semester GPA of 3.5+.

IEEEExtreme 13.0 Programming Contest October 2019
Contestant Online

- Ranked 67th globally and 2nd among teams participating from Turkey.

Turkish Programming Contest (TPC) September 2019
Contestant Istanbul, Turkey

- Represented Koç University and ranked 12th among teams participating from all over Turkey.

SKILLS

- **Technical:** Deep Learning, Algorithms & Data Structures, Software Design, Blockchain, Agile Development.
- **Programming Languages:** C++, Python, Java, Golang, C, R, Matlab, Javascript.
- **Languages:** Arabic (native), English (fluent), French (intermediate), Turkish (intermediate).

EXTRACURRICULAR ACTIVITIES

International Blockchain Olympiad 2020

July 2020

Participant

Online (due to Covid-19)

- Presented our Proof of Concept implementation of LightChain as part of DISNET Research Team.

Koç University Programming Championship (KUPC)

January 2020 - September 2020

Problem Setter & Chief Judge

Istanbul, Turkey

- KUPC is an ACM-ICPC style programming competition for Koç University students.
- Created and tested problems, and prepared competition system.

Koç University ACM Student Chapter (KUACM)

May 2019 - August 2020

Vice President

Istanbul, Turkey

- Managed and organized programs and activities carried out under that chapter's supervision.

Koç University Algorithms Program (KUAP)

January 2019 - September 2020

Founder & Coordinator & Instructor

Istanbul, Turkey

- Created a curriculum that covers basics of problem solving using algorithms and data structures.
- Led discussions and problem solving sessions demonstrating concepts and solutions to problems.

inzva Algorithmic Competition Winter Camp 2019

January 2019

Participant & Contestant

Istanbul, Turkey

- Ranked 1st in final day contest after a week long intensive training on algorithms and data structures.