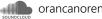
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orancanoren www.orancanoren.com (\$\) +90(545)6657024



education

Sabanci University Istanbul, Turkey

Computer Science, B.Sc . Mathematics Minor

Cumulative GPA 3.39 / 4.00

Dean's Honor List Spring '16 & Spring, Fall '17 **Expected Graduation**

experience

Program Coordinator

Sep '17 - present

Sabanci University Engineering Society

Istanbul, Turkey

Formed competitive teams in fields of algorithms, cybersecurity and mechatronics; organized recruitment events and preparation plans. Member of the algorithms team.

Undergraduate Researcher

Jul '17 - Sep '17

Sabanci University

Istanbul, Turkey

Attempted to increase cache utilization of canonical polyadic decomposition on sparse tensors by reordering them. Worked extensively with C++ and written high performance graph reordering heuristics on a high performance cluster.

course projects

Airport RDBMS

Spring '16

CS 306 - Database Systems

Implemented a generic database management system for airports. Worked with MySQL, PHP and Javascript.

Starbucks Stores & 911 calls corellation

Spring '16

CS 210 - Introduction to Data Science

Uncovered correlation among number of Starbucks stores per person vs number of 911 calls per person in Philadelphia. Performed statistical analysis, used decision trees and regressors for predictive modelling of the dataset.

Distance 2 Graph Coloring (GPU & CPU)

Fall '17

Fall '17

CS 406/531 - Parallel Computing

Implemented multiple distance-1 and distance-2 graph coloring algorithms working in parallel. CPU, GPU and heterogeneous parallelization was done. Written LaTeX reports discussing the performance.

Parallelized Private Information Retrieval

CS 411/507 - Cryptography

Implemented a recently proposed PIR scheme based on Damgard-Jurik cryptosystem, utilizing parallelization on CPUs.

solo projects

Project Hangout [ongoing]

Sep '17 - present

React.is, Express.is, neo4j, PostgreSQL, Swift 3

A social web application where users publish their ongoing social interactions. Each ongoing interaction forms a clique of users. Based on closeness of these cliques, users are suggested other ongoing interactions to participate or to merge activites with.

graphapp.herokuapp.com

CPU & GPU Hybrid Parallel Hashcash

Jan '17

C++, CUDA, OpenMP

SHA256 hashcash computer program that utilizes parallelism on CPU's and GPU's simultaneously. Given a seed s and number of desired leading zero bits of the output, t, the program finds a nonce n for which SHA256(s + n) has t leading zeros.

Cryptographic Algorithms Suite

Jan '17

Implemented RSA-OAEP, ElGamal, Rijndael (AES) and DES cryptosystems along with Diffie-Hellman key exchange protocol with no external libraries using Python.

See my GitHub profile for more projects

technologies

Programming (proficient) C++, Python

Programming (familiar) Javascript, C#, Swift 3

Frameworks & Libraries MERN Stack

Databases MongoDB, PostgreSQL, neo4j

High Performance OpenMP, CUDA

non-technical

Classical Piano

Oct '15 - Present

- Followed Hanon's piano exercises
- Comfortable with all natural major scales and some minor scales
- Studied baroque era; played from Bach and Haendel

Electronic Music Production

Oct '15 - Present

- Comfortable using FL Studio 12
- 2 years of experience with subtractive and additive synthesis
- Used Harmor, Serum & Massive VSTs

Apr '15 - Dec '15

- Studied Yasser Seirawan's opening & tactics books
- Studied Grünfeld defence and King's Indian Attack extensively