Oran Can Ören

✉ orancan@sabanciuniv.edu ⬡ orancanoren ☁ orancanoren in orancanoren ⌂ www.orancanoren.com ☎ +90(545)6657024

education

Sabanci University
Istanbul, Turkey

Computer Science, B.Sc
Mathematics Minor

Major GPA
3.25 / 4.00

Dean's Honor List
Spring '16 & Spring '17

Expected Graduation
Spring '19

experience

Program Coordinator   Sep '17 - present
Sabanci University Engineering Society   *Istanbul, Turkey*

Formed competitive teams in fields of algorithms, data science, cybersecurity and mechatronics; organized recruitment events and preparation plans. Member of algorithms & data science teams.

Undergraduate Researcher   Jul '17 - Sep '17
Sabanci University   *Istanbul, Turkey*
Supervisor: Kamer Kaya

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 algorithms on a high performance cluster.

course projects

Cryptography: Math & Coding   Spring '15
PROJ 102 - Project Course

Studied number theory, developed RSA OAEP and El Gamal public key cryptosystems in Python as a freshman.

Airport RDBMS   Spring '16
CS 306 - Database Systems

Full featured database management system designed for airports. Engineerred using MySQL and PHP, designed by materialize-css & javascript. In this group project, my role was to design the front-end app and code it in HTML, CSS & JS.

Starbucks Locations & 911 calls   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.

projects

Project Hangout [ongoing]   Sep '17 - present
React.js, Express.js, neo4j, PostgreSQL, Swift 3

An application where users form circles (i.e. cliques), indicating that a group of users are currently in social interaction. By computing the shortest distances via follow-relationships on a graph database, server computes the similarity among circles in order to predict if two circles may merge or not.

The application exploits asynchronous nature of Node.js efficiently; various performance optimizations have been performed by performance profiling and tests.

I'm full stack engineering this application in order to have solid understanding of the challenges in development of each layer in MVC model.

graphapp.herokuapp.com

Push Me   April '17
Express.js, MongoDB

A simple web application where clients push a button to have an entry in the database. Users can view the pushes made by other users by time, country and city. It can be considered as a basic CRUD application.

pushmeapp.herokuapp.com

See my GitHub profile for more projects

languages & technologies

Programming (proficient)	C++, Python
Programming (familiar)	Javascript, C#, Swift 3, PHP
Frameworks & Libraries	MERN Stack, Passport.js
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

Chess   Apr '15 - Dec '15
- Studied Yasser Seirawan's opening & tactics books
- Studied Grünfeld defence and King's Indian Attack extensively