

# NAZ YÜKSEK

## Software Engineering Intern

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Istanbul, TURKEY

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## EXPERIENCE

### Section Leader (Teaching Assistant)

Introduction to Programming

#### Koç University

September 2018 – January 2019 Istanbul

- Taught problem sessions to the students of a course with 200 students every week of the term.
- Prepared graded course homework covering multiple weeks of content.
- Graded submitted student homework throughout the term.

## RELEVANT COURSEWORK

### Data Structures & Algorithms

- Basic data structures, algorithms, and their computational complexity including, but not limited to, list, stack, queue, priority queue, map, tree, balanced tree, hash table, heap, skip list, trie, graph. Basic search, selection, sorting, and graph algorithms, both iterative and recursive.

### Structure and Interpretation of Computer Programs

- Introduction to core software engineering concepts. Control of complexity in large programming systems. Building abstractions with procedures and data. Modularity, objects and state. Machine models, compilers and interpreters, concurrency. Taught in Scheme.

### Advanced Programming

- Advanced programming techniques and practices in Java and C including: inheritance, hierarchies, polymorphism, code reuse, memory management and graphical user interfaces.

### Introduction to Programming for Data Science

- Fundamental understanding of data science concepts and applications by means of programming in Python. Emphasis is placed on modular programming, algorithm design, and language constructs common to most high level languages.

### Introduction to Programming

- Introductory course on computer programming using Java.

### Discrete Mathematics for Computer Science and Engineering

- Logic, formal reasoning, sets, growth of functions, algorithmic complexity, number theory, mathematical induction, combinatorics, recurrence, generating functions, relations, graphs and models of computation.

### Teaching Computer Science

- Teaching fundamental elements of modern programming to COMP 130 students by using the Java language.

### Probability and Random Variables for Engineers

- Probability and statistics for engineering applications, introduction to stochastic processes.

### Digital Design

- Digital hardware, boolean algebra, logic functions and gates, canonical forms, simplification of boolean functions, Karnaugh maps, conversions, complement arithmetic, adders, multiplexers, tri-state outputs, decoders, encoders, sequential logic, flip-flops, sequential circuit analysis, sequential circuit design, registers and counters, memory and programmable logic, central processing unit.

## SKILLS

Java C Scheme Python SQL  
Data Science Git HTML CSS  
JavaScript XML

Hard-worker Motivator & Leader  
Team Worker Inquisitive Fast Learner  
Problem-solver Analytical

## EDUCATION

### BSc Computer Engineering

GPA: 3.04/4.00

#### Koç University

September 2017 – Ongoing

### High School

#### Atafen Collage

November 2016 – June 2017

### High School

#### Kocaeli Anatolian High School

September 2013 – November 2016

## HONORS



#### National Athlete

Played in the Turkish National Tennis Team. Participated to over 50 tournaments and 8 camps all across the globe in 9 years.



#### University Athlete

Active member of Koç University Tennis Team. Helped the team get promoted to the first division.



#### Serathon-in Hackathon

Participated to a national hackathon organized by Turkish Capital Markets Association as the only female participant.

## LANGUAGES

Turkish



English



German

