

About Me: Next semester, I am going to be a third-year student. This year I will be completing all computer science related third-year mandatory courses offered in my curriculum. Besides the formal education, I am learning from online courses about machine learning and big data processing.

Emre Açıkgoz

Education

September 2018 – June 2023

(Expected with)

Computer Science, B.S.

Bilkent University

CGPA: 3.49/4.00

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GitHub: github.com/emrez

Last Updated: December 5, 2020

Online Version: github.com/emrez/cv

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Skills & Tools

- UML Diagrams
- Design Patterns
- Git & GitHub
- Requirement Analysis & Design
- Code Review
- Visual Paradigm
- Slack
- SQL

Programming Languages

- Java
- Python
- C/C++
- Scala
- JavaScript
- Dart

Coursework

CS 101 (Jan 2019 – June 2019) – **Letter Grade: A**

CS 102 (Sep 2019 – Dec 2019) – **Letter Grade: A**

CS 223 (Sep 2019 – Dec 2019) – **Letter Grade: A**

CS 224 (Jan 2020 – June 2020) – **Letter Grade: B+ (3.30/4.00)**

- **Implemented** a simplified version of **MIPS Singlecycle** processor and **MIPS Pipelined** processor using **SystemVerilog**.

CS 201 (Jan 2020 – June 2020) – **Letter Grade: A**

CS 202 (Sep 2020 – Dec 2020) - Grade: Currently Taking

CS 319 (Sep 2020 – Dec 2020) - Grade: Currently Taking

CS 315 (Sep 2020 – Dec 2020) - Grade: Currently Taking

- Inspected the language structures of the following languages:
- **Dart, JavaScript, Lua, PHP, Python, Ruby and Rust**
- Designed a programming language as a term project with a classmate.
 - o **Implemented** a **lex file specification** for this language.
Grade: 96/100
 - o **Implemented** a **yacc parser file** for this language.
Grade: 95/100

Certificates

- Programming Languages, Part A-B ([Certificate link](#)), ([Certificate link](#))
 - o Learned functional programming fundamentals.
- Python for Everybody Specialization ([Specialization link](#))
 - o Implemented a module to **scrape data** from the internet and store this data using **SQLite**.
- Build a Modern Computer from First Principles: From Nand to Tetris (Project-Centered Course) ([Certificate link](#))
 - o **Built a computer** virtually from scratch using a made-up **Hardware Description Language**.
 - o **Implemented** a processor with **Von-Neumann architecture** and a simple memory module.
 - o **Implemented** an **assembler** in **Python** for this processor.
 - o **Implemented** a **virtual machine language translator** in Python.
- Functional Programming Principles in Scala ([Course link](#))
 - o Implemented **Huffman coding** algorithm with Scala.
- Machine Learning Foundations: A Case Study Approach ([Certificate link](#))
- Algorithms I ([Course link](#))
 - o Solved a **percolation problem** using **union-find** algorithms.
 - o **Implemented** a puzzle solver using **priority queue** data structure and **A* search algorithm**.