

# SAAD AMEER

+90 (544) 688-6832 ◇ Ankara, Turkey

[thesaadameer@gmail.com](mailto:thesaadameer@gmail.com) ◇ [github.com/thesaadameer](https://github.com/thesaadameer) ◇ [linkedin.com/in/thesaadameer](https://linkedin.com/in/thesaadameer)

Portfolio

## EDUCATION

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**Bilkent University. Ankara, Turkey.**

Expected Graduation: May 2024

BS in Computer Technology and Information Systems.

**Relevant Courses:** Web Programming, Algorithms and Programming, Object Oriented Programming, Data Structures and Algorithms, Discrete and Combinatorial Mathematics, Calculus I and II, Technical Mathematics with Programming, Linux, Computer Networks, Database Management Systems and Applications, Object Oriented Analysis and Design.

## EXPERIENCE

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**Software Engineer Intern at University of California, Davis**

May 2022 - Sept 2022

PHP, MySQL, HTML, CSS

- Developed a web application for a research project of walnut genes by implementing a search algorithm that finds the best match from a big database and displays it in a user friendly navigation window.
- The website displays the data in a tabular form where each cell displays walnut related information of a particular Gene ID while allowing the user to navigate to other web pages from each cell for detailed information.
- The website also allows the user to download the searched results in a csv format.
- The data is being collected and used from National Center for Biotechnology Information of the US Government - [NCBI](#), [Ensembl Plants](#), [UniProt](#), and some other databases/websites.
- MySQL is used to manage, search, filter and retrieve the desired information.

**Internship at Aabroo Welfare Organization**

Aug 2017 - Sept 2017

**Internship at Door of Awareness**

June 2017 - July 2017

**Internship at Shaukat Khanum Hospital**

July 2016 - Aug 2016

## PROJECTS

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**Dynamic Landing Page** HTML, CSS, Javascript

[GitHub](#)

- The webpage shows the current time, greets the user based on their time, and allows them to make and edit a to-do list.

**OpenGL Projects** C, OpenGL, GLUT Library

[Project 1](#) [Project 2](#) [Project 3](#)

- In these games, movements, timer, parabolic paths, hit and count, following objects using trigonometry and several other functions are being applied.

**Web based Tiles game** HTML, CSS, JQuery

[GitHub](#)

- When the game starts, there's a countdown timer that decreases every second if the user is not able to click any of the tiles, and the bar represents the countdown.
- The game saves the high score, allowing them to compete with the previous high score.

**Route Optimizer** Java, Swing Library, Android Studio

[GitHub](#)

- Travelling Salesmen Problem algorithm is used to find the optimal path to reach several destinations.
- The order in which these locations should be visited is optimized to find minimal road length with integrating google maps in the application.